

# 1 -Comp, Loc.: Control modules - Vehicle Rear

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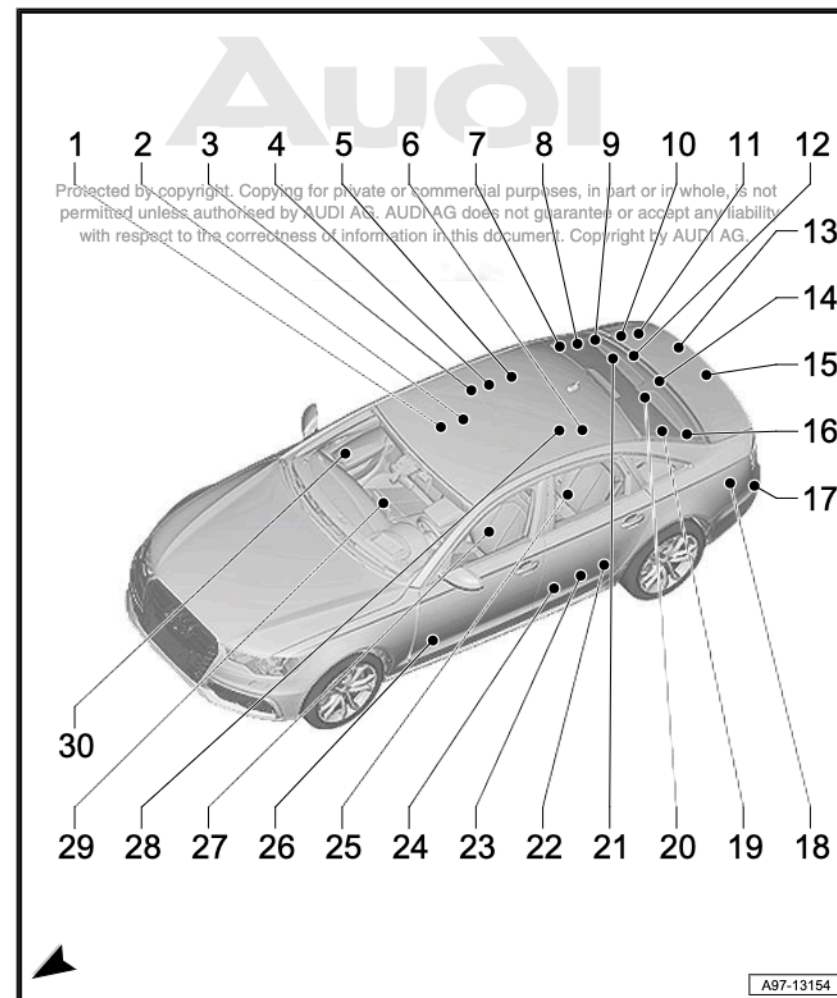
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## 1.2 Comfort System Central Control Module -J393-

In right luggage compartment, on wheel housing -H-.

A - 17-Pin Connector -T17s- , black

B - 32-Pin Connector -T32i- , black

C - 17-Pin Connector -T17r- , brown

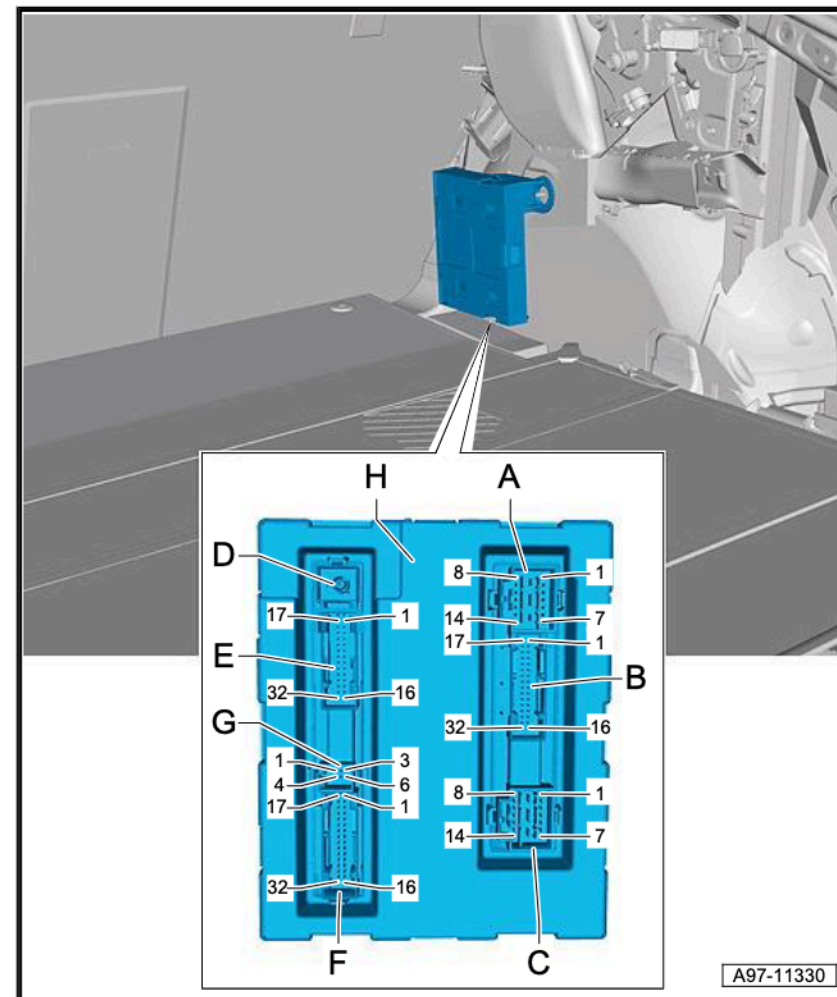
D - 2-Pin Connector -T2co- , Connector Central Locking and Anti-Theft Alarm System Antenna -R47-

E - 32-Pin Connector -T32g- , gray

F - 32-Pin Connector -T32h- , blue

G - Not used

H - Comfort System Central Control Module -J393-



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### 1.3 Rear Lid Control Module -J605- , Sedan

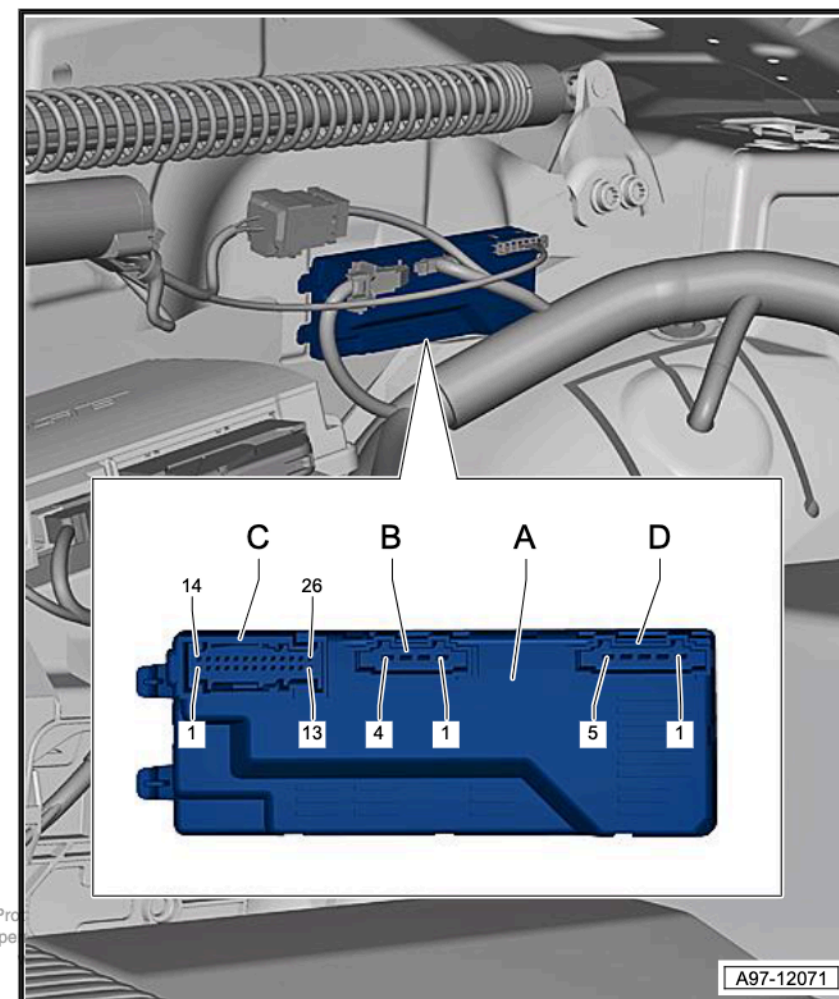
In left luggage compartment, on wheel housing -A-.

A - Rear Lid Control Module -J605-

B - 4-Pin Connector -T4bx- , black

C - 26-Pin Connector -T26b- , black

D - 5-Pin Connector -T5ae- , black, Rear lid motor 1 -V444- , Rear lid motor 2 -V445-



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## 1.4 Rear Lid Control Module -J605- , Avant

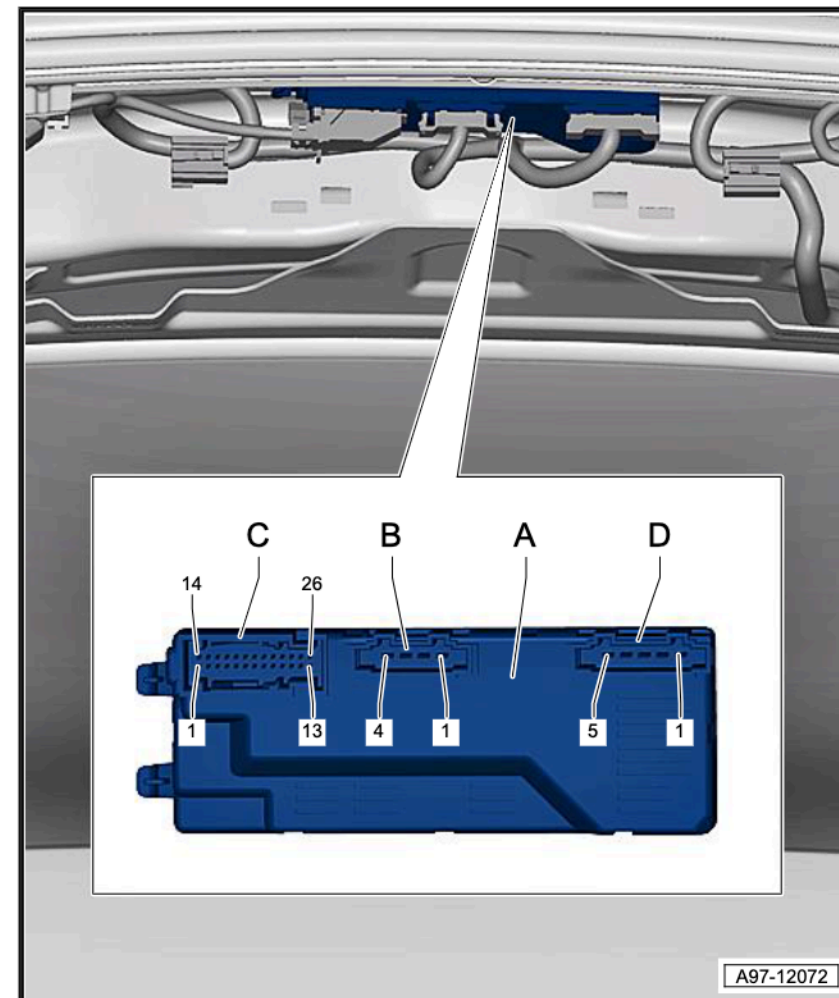
On upper centre of rear lid cutout -A-.

A - Rear Lid Control Module -J605-

B - 4-Pin Connector -T4bx- , black

C - 26-Pin Connector -T26b- , black

D - 5-Pin Connector -T5ae- , black



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## 1.5 Rear lid motor 1 -V444- / Rear lid motor 2 -V445- , Avant

On upper left of rear lid cutout -2- and right -1-.

### 1 - Rear lid motor 2 -V445-

- ☐ in direction of travel, right
- ☐ with Coupling in rear lid motor 2 -N528-

### 2 - Rear lid motor 1 -V444-

- ☐ in direction of travel, left
- ☐ with Rear Lid Closed Sensor 1 -G525- , Rear Lid Closed Sensor 2 -G526- , Coupling in rear lid motor 1 -N527-

### A - 5-Pin Connector -T5ah-

- ☐ Through model year 2014

### A - 6-Pin Connector -T6ck-

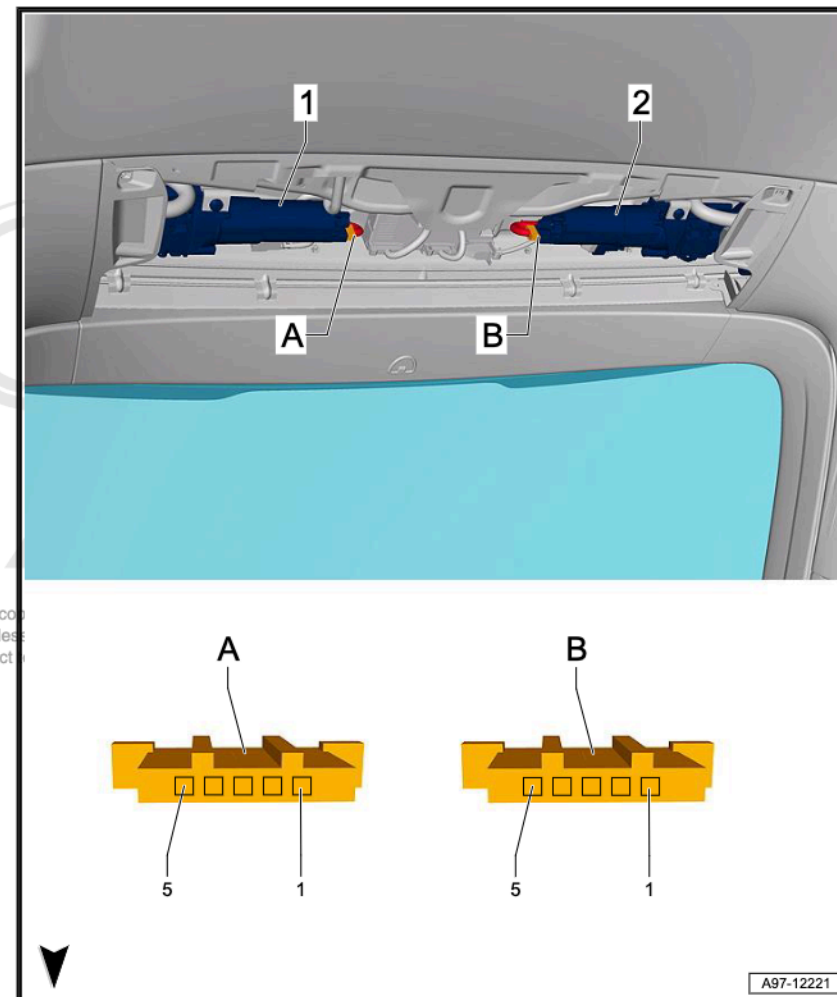
- ☐ from model year 2015

### B - 5-Pin Connector -T5r-

- ☐ Through model year 2014

### B - 6-Pin Connector -T6ci-

- ☐ from model year 2015



Pin Arrangements Rear lid motor 1 -V444- / Rear lid motor 2 -V445- , through model year 2014

-T5ah- (A)	Designation		-T5r- (B)	Designation
1	Rear Lid Control Module -J605-		1	Rear Lid Control Module -J605-
2			2	
3			3	
4			4	
5	Rear Lid Control Module -J605-		5	Rear Lid Control Module -J605-

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Pin Arrangements Rear lid motor 1 -V444- / Rear lid motor 2 -V445- , from model year 2015

-T6ck- (A)	Designation		-T6ci- (B)	Designation
1			1	Rear Lid Control Module -J605-
2			2	Rear Lid Control Module -J605-
3	Rear Lid Control Module -J605-		3	Rear Lid Control Module -J605-
4			4	Rear Lid Control Module -J605-
5			5	Rear Lid Control Module -J605-
6	Rear Lid Control Module -J605-		6	Rear Lid Control Module -J605-

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## 1.6 Towing Recognition Control Module -J345-

In right luggage compartment, behind side panel trim

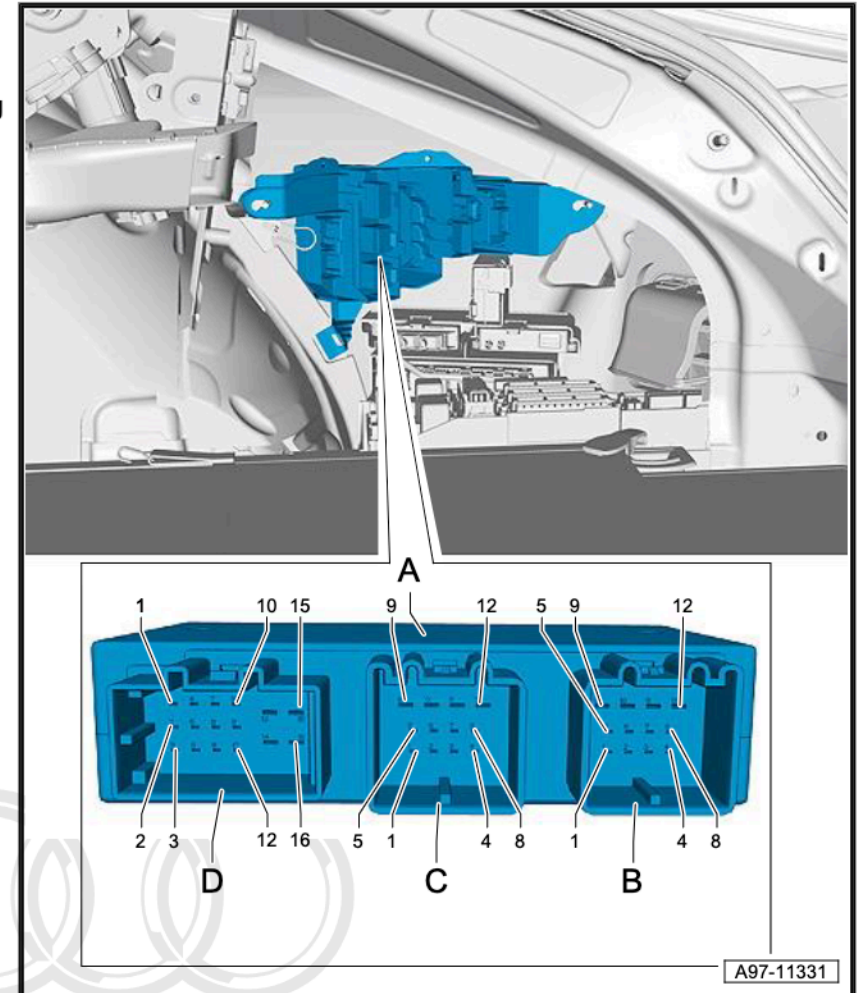
Pin Arrangements, through model year 2014

A - Towing Recognition Control Module -J345-

B - 12-Pin Connector -T12n- , blue, Trailer Coupling -Locked- Indicator Lamp -K226- , Trailer Coupling -Unlocked - Indicator Lamp -K227-

C - 12-Pin Connector -T12m- , red

D - 16-Pin Connector -T16h- , black, to Trailer Socket -U10- , Lock Bolt Contact Switch -F355-



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Pin Arrangements, from model year 2015

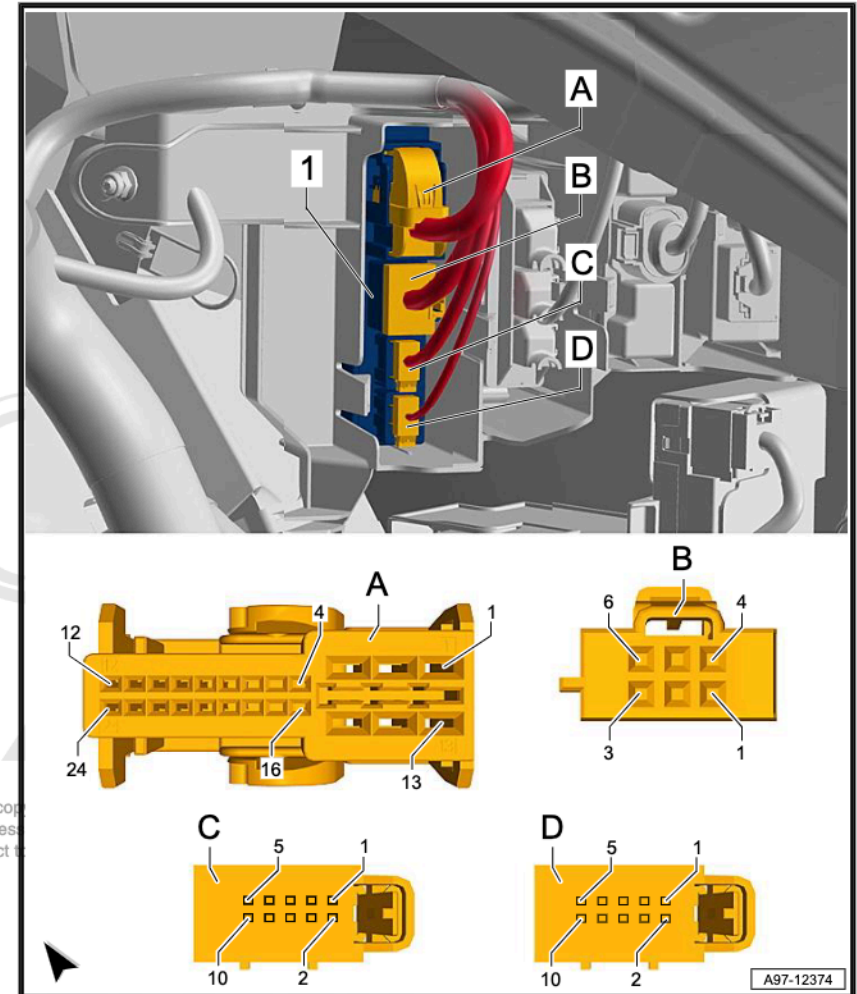
1 - Towing Recognition Control Module -J345-

A - 24-Pin Connector -T24a- , black

B - 6-Pin Connector -T6ce- , black

C - 10-Pin Connector -T10bh- , black

D - 10-Pin Connector -T10bi- , red



Pin Arrangements Towing Recognition Control Module -J345-

-T24a- (A)	Designation	-T24a- (A)	Designation
1	Trailer Socket -U10-13-Pin Connector -T13a-	13	
2	Trailer Socket -U10-13-Pin Connector -T13a-	14	

-T24a- (A)	Designation		-T24a- (A)	Designation
3	Trailer Socket -U10- 13-Pin Connector -T13a-		15	Trailer Socket -U10- 13-Pin Connector -T13a-
4			16	
5	Lock Bolt Contact Switch -F355-		17	
6			18	Trailer Socket -U10- 13-Pin Connector -T13a-
7	Lock Bolt Contact Switch -F355-		19	Trailer Socket -U10- 13-Pin Connector -T13a-
8			20	
9			21	
10	Lock Bolt Contact Switch -F355-		22	
11			23	Trailer Socket -U10- 13-Pin Connector -T13a-
12	Trailer Socket -U10- 13-Pin Connector -T13a-		24	Trailer Socket -U10- 13-Pin Connector -T13a-

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## 1.7 Parking Aid Control Module -J446-

In right luggage compartment, behind side panel trim -A-.



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A - Parking Aid Control Module -J446-

B - 16-Pin Connector -T16i- , brown

C - 12-Pin Connector -T12w- , black

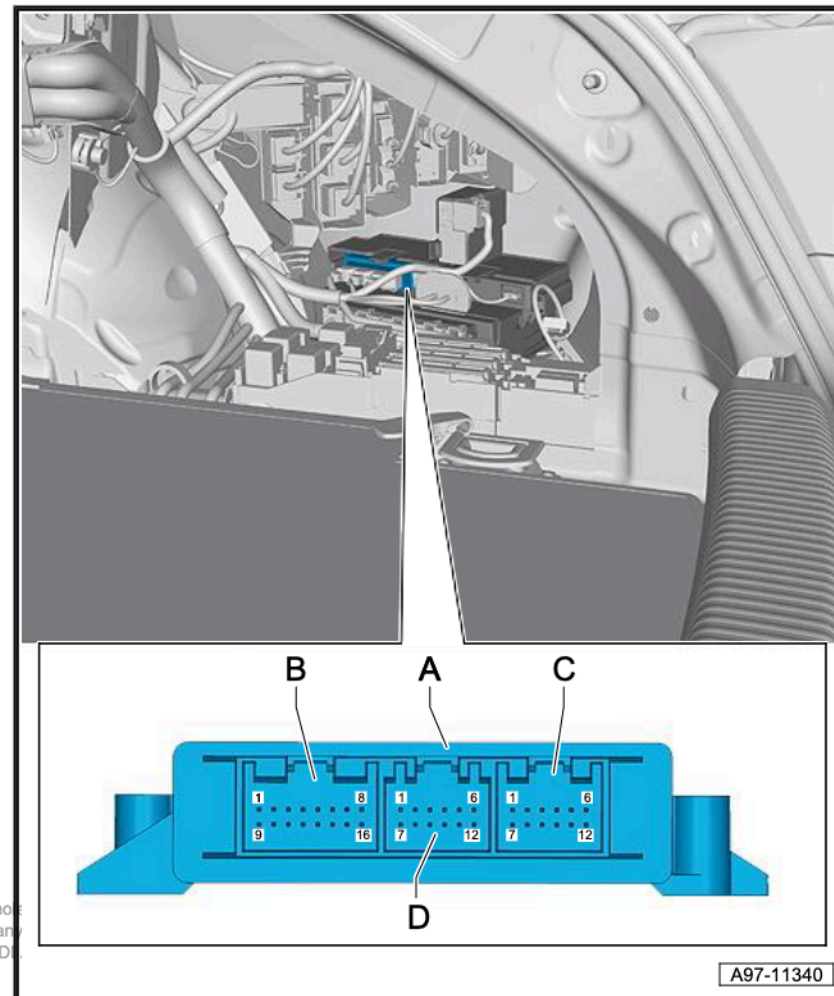
D - 12-Pin Connector -T12q- , brown



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## 1.8 Parallel Parking Assistance Control Module -J791-

In right luggage compartment, behind side panel trim -A-.

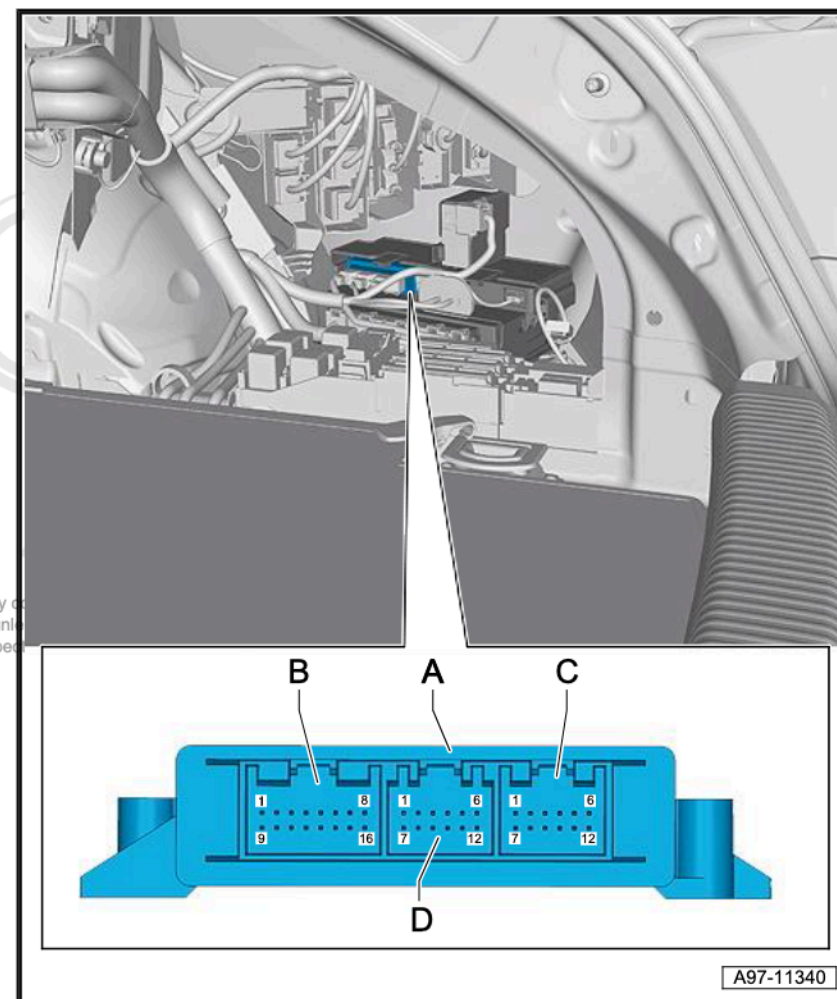
A - Parallel Parking Assistance Control Module -J791-

B - 16-Pin Connector -T16i- , brown

C - 12-Pin Connector -T12w- , black

D - 12-Pin Connector -T12q- , brown

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## 1.9 Level Control System Control Module -J197-

In right luggage compartment, behind side panel trim -1-.

A - Level Control System Control Module -J197-

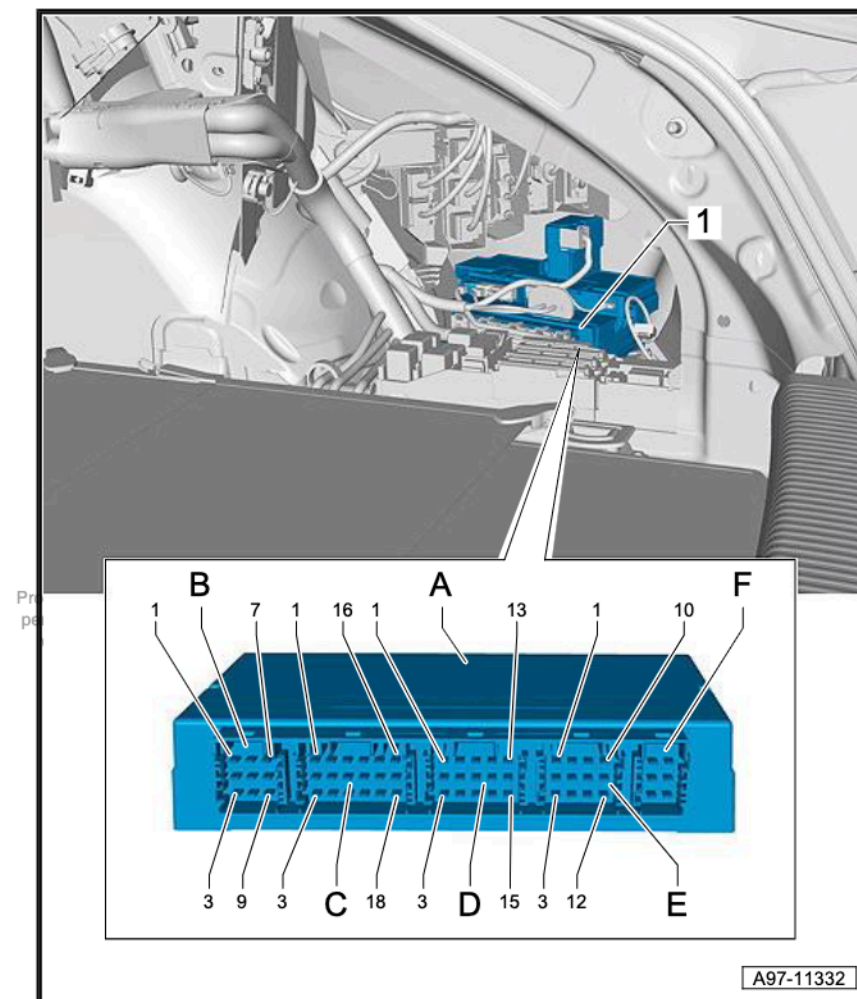
B - 9-Pin Connector -T9a- , gray

C - 18-Pin Connector -T18a- , gray

D - 15-Pin Connector -T15a- , purple

E - 12-Pin Connector -T12r- , green

F - 6-Pin Connector -T6w- , blue



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## 1.10 Electronic Damping Control Module -J250-

In right luggage compartment, behind side panel trim -1-.

A - Electronic Damping Control Module -J250-

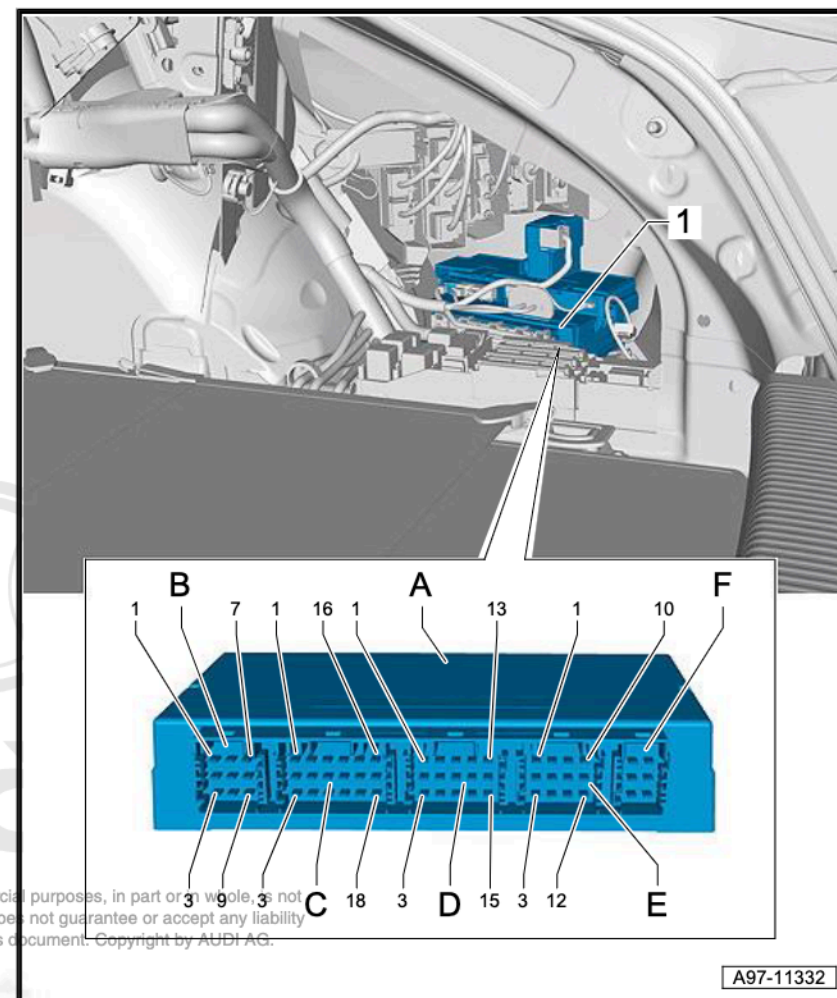
B - 9-Pin Connector -T9a- , gray

C - 18-Pin Connector -T18a- , gray

D - 15-Pin Connector -T15a- , purple

E - Not used

F - Not used



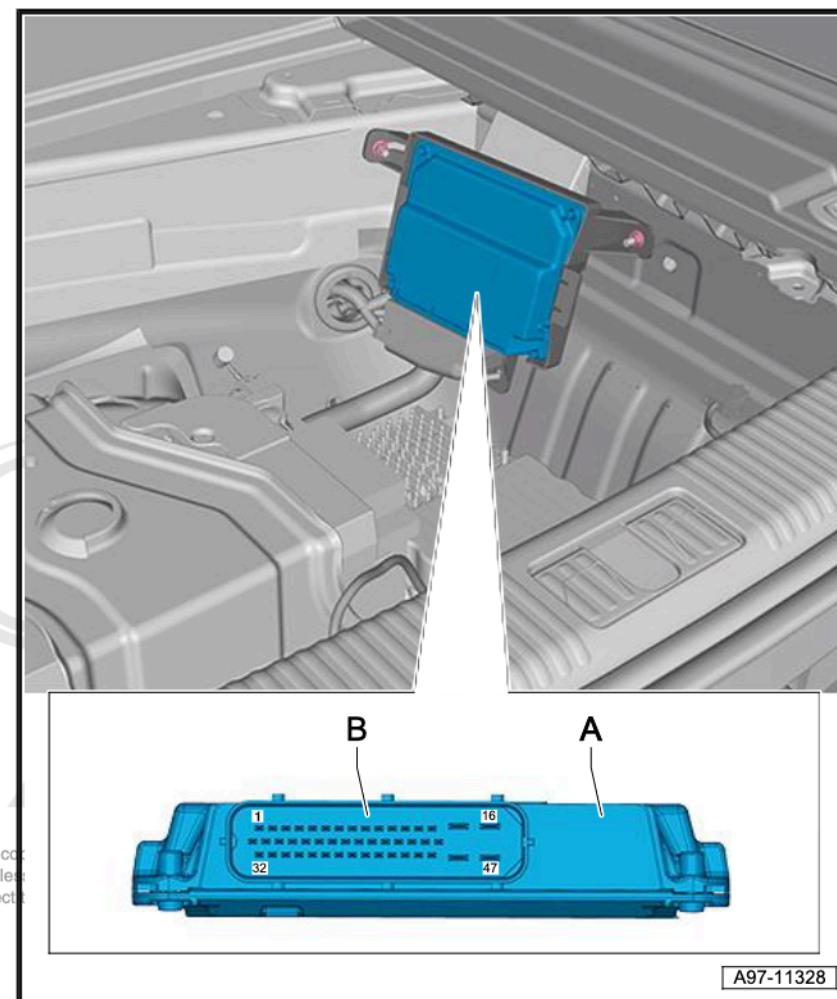
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## 1.11 All-Wheel Drive Control Module -J492-

In right luggage compartment, in luggage compartment well -A-.

A - All-Wheel Drive Control Module -J492-

B - 47-Pin Connector -T47a- , black





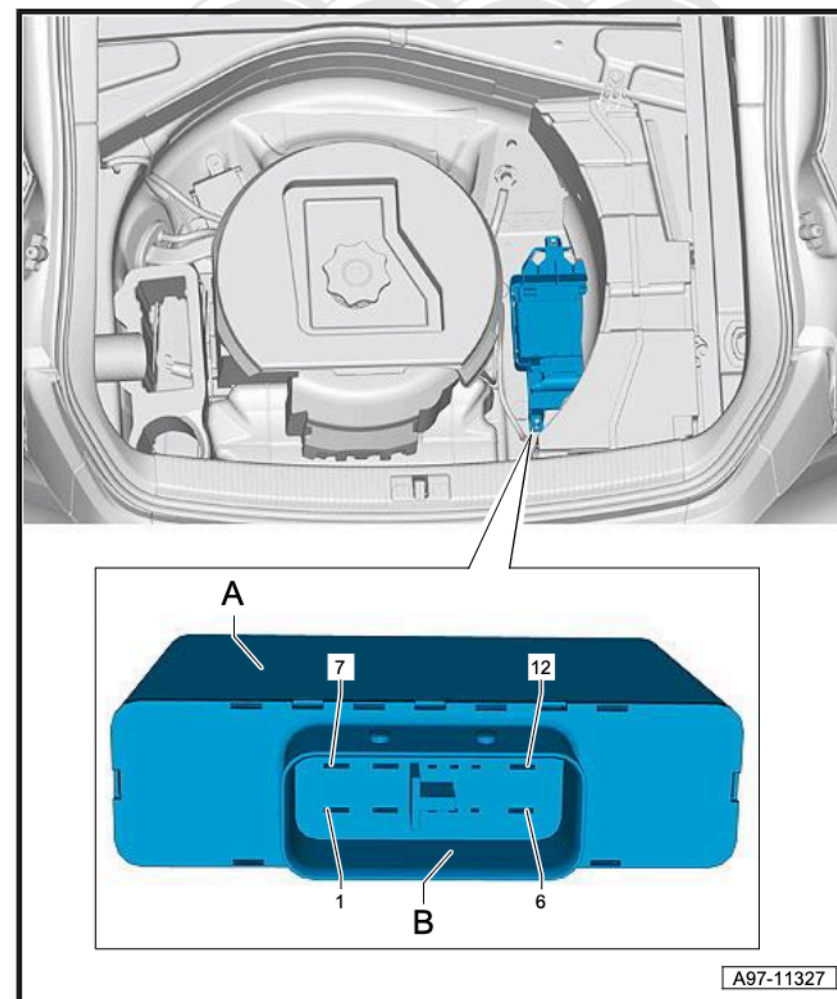
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## 1.12 Voltage Stabilizer -J532-

In right luggage compartment, in luggage compartment well -A-.

A - Voltage Stabilizer -J532-

B - 12-Pin Connector -T12p- , black



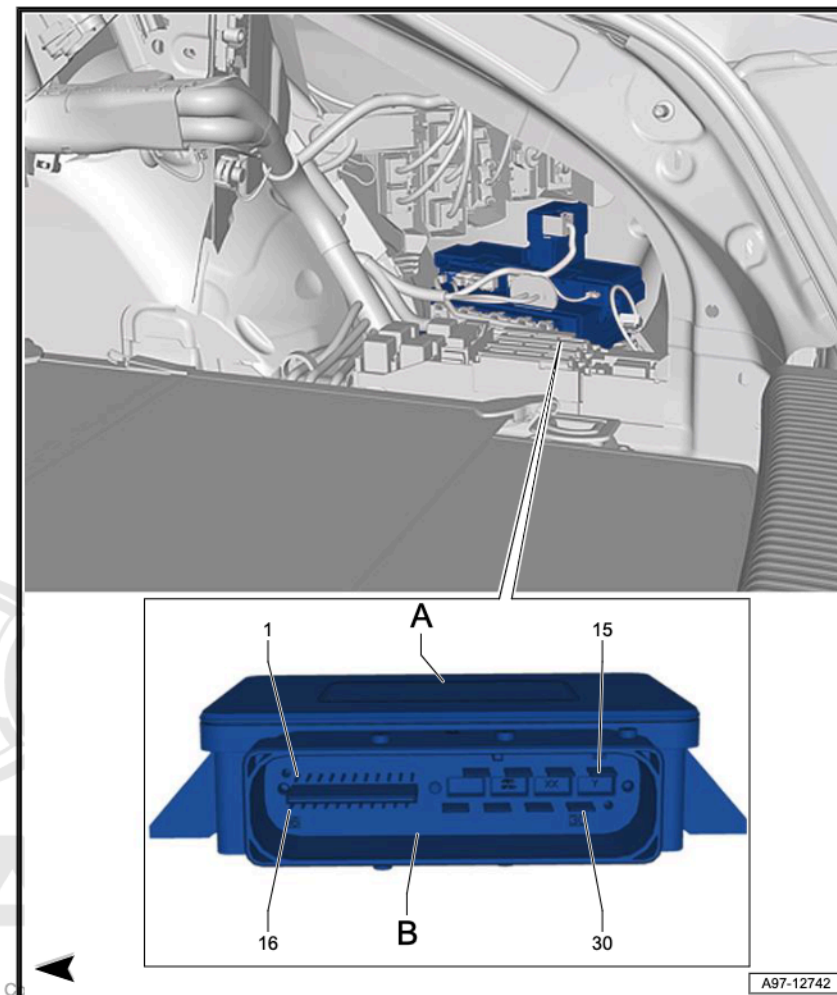
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## 1.13 Electro-Mechanical Parking Brake Control Module -J540-

In right luggage compartment, behind side panel trim -A-.

A - Electro-Mechanical Parking Brake Control Module -J540-

B - 30-Pin Connector -T30a- , black



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## 1.14 Left Rear Door Control Module -J388-

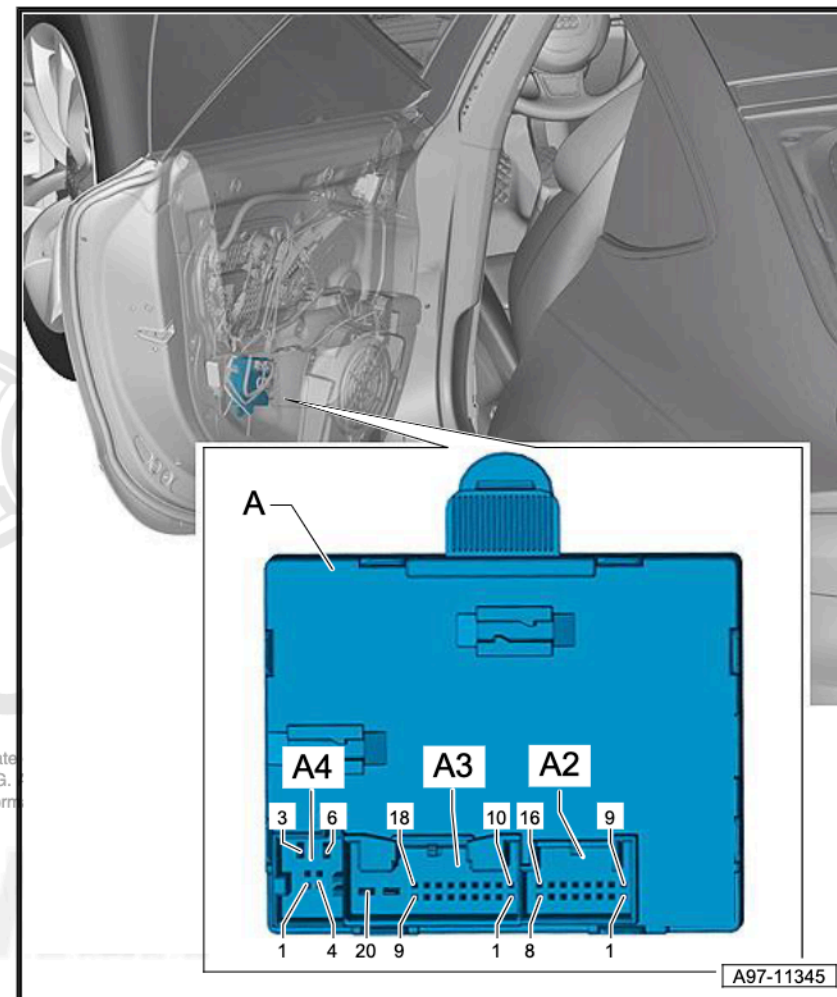
In left rear door -A-.

A - Left Rear Door Control Module -J388-

A2 - 16-Pin Connector -T16n- , black

A3 - 20-Pin Connector -T20g- , black

A4 - Not used



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## 1.15 Right Rear Door Control Module -J389-

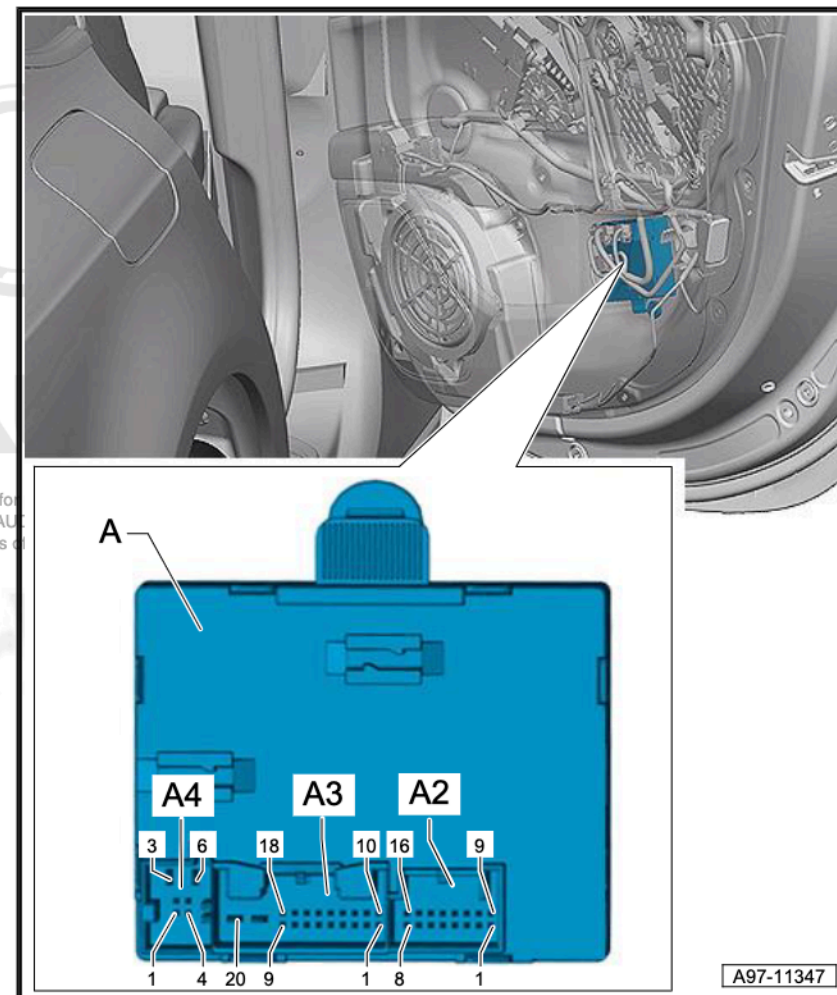
In right rear door -A-.

A - Right Rear Door Control Module -J389-

A2 - 16-Pin Connector -T16o- , black

A3 - 20-Pin Connector -T20h- , black

A4 - Not used



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## 1.16 Driver's Door Control Module -J386-

In front left door, left-hand drive.

In front right door, right-hand drive.



Note

*Illustration shows left-hand drive.*



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A - Driver's Door Control Module -J386-

A1 - 32-Pin Connector -T32k- , blue

A2 - 16-Pin Connector -T16l- , black

A3 - 20-Pin Connector -T20e- , black

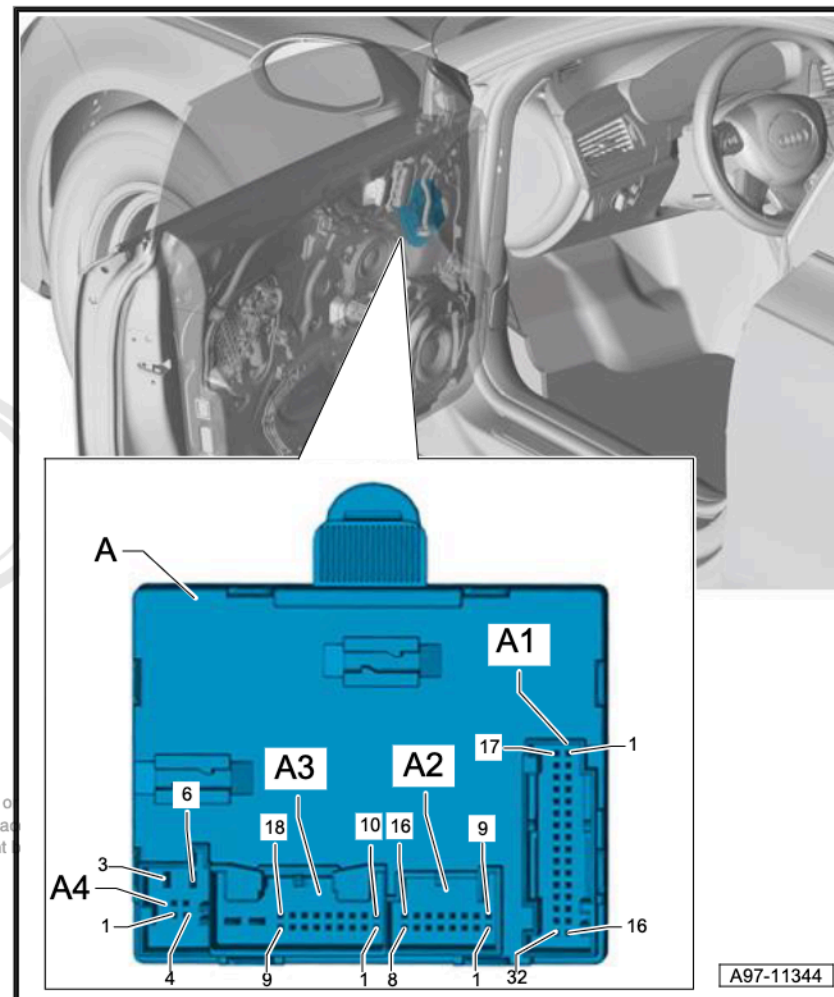
A4 - 6-Pin Connector -T6as- , black



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## 1.17 Front Passenger's Door Control Module -J387-

In front right door, left-hand drive.

In front left door, right-hand drive.



Note

*Illustration shows left-hand drive.*

A - Front Passenger's Door Control Module -J387-

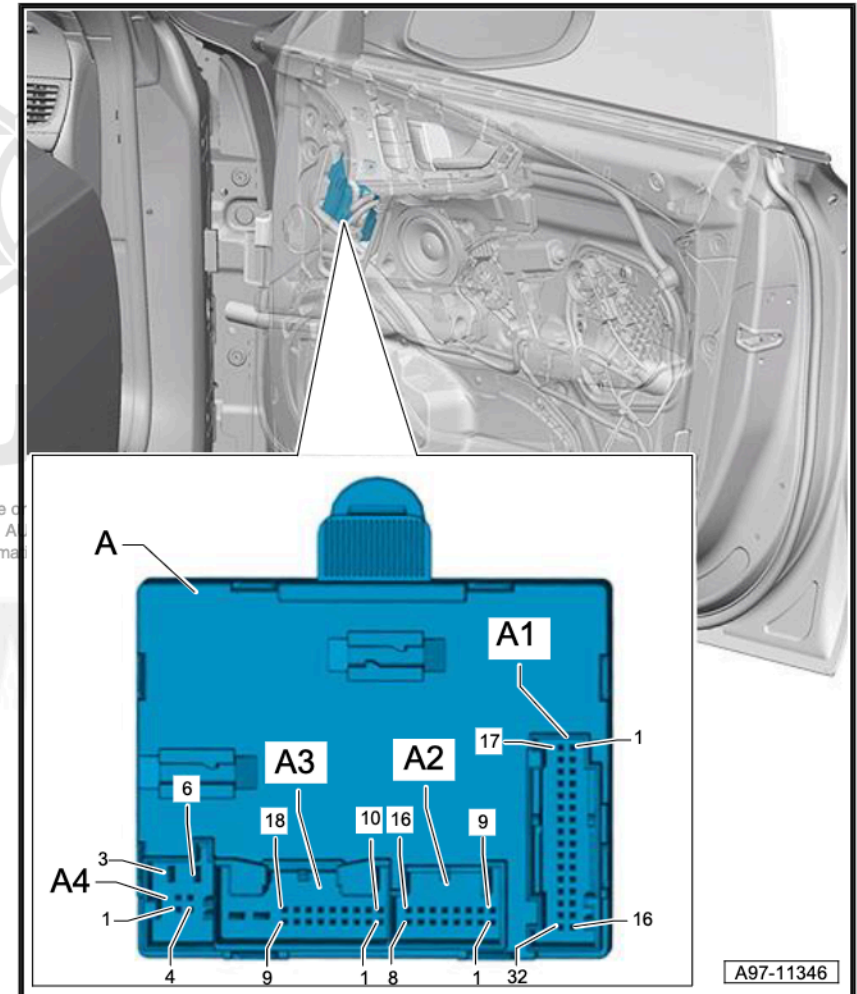
A1 - 32-Pin Connector -T32l- , blue

A2 - 16-Pin Connector -T16m- , black

A3 - 20-Pin Connector -T20f- , black

A4 - 6-Pin Connector -T6at- , black

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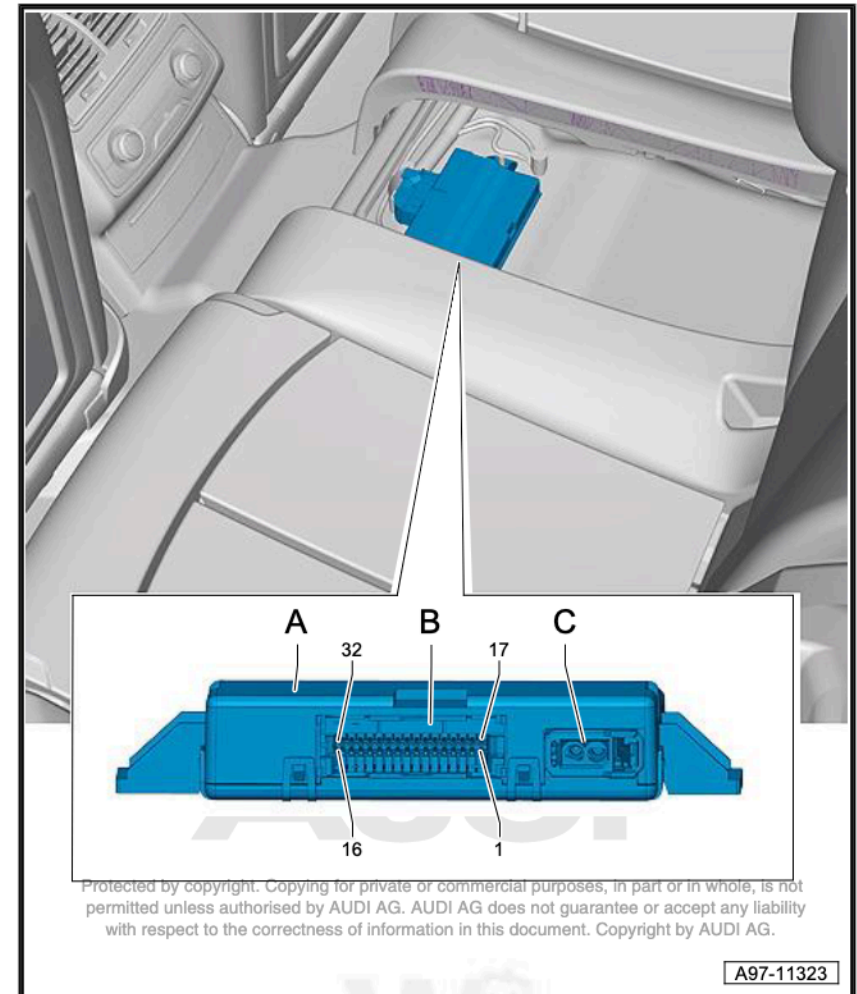
## 1.18 Data Bus On Board Diagnostic Interface -J533-

Below rear seat -A-.

A - Data Bus On Board Diagnostic Interface -J533-

B - 32-Pin Connector -T32b- , black

C - 2-Pin Connector -T2aq- , MOST-Bus, black



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## 1.19 Rear A/C Display Control Head -E265-

In the rear center console -B-.

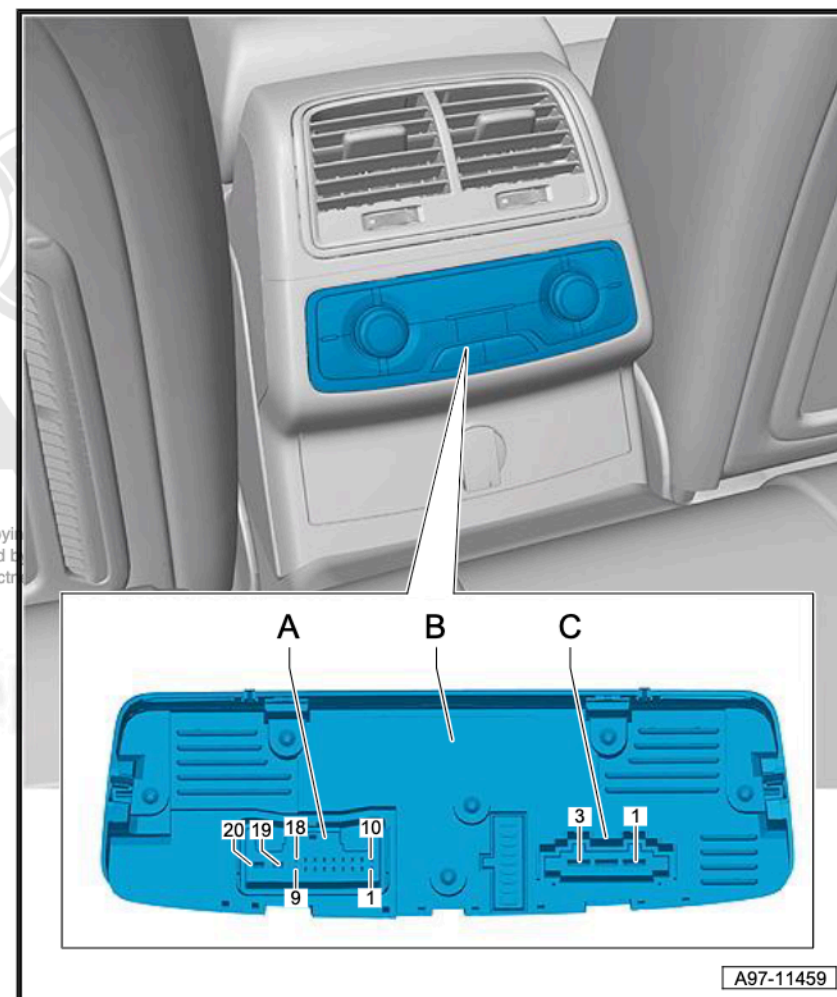
A - 3 Pin Connector -T3r- , black

B - Rear A/C Display Control Head -E265-

- ☐ with Left Rear Heated Seat Regulating Switch -E128- , Right Rear Heated Seat Regulating Switch -E129-

C - 20-Pin Connector -T20a- , black

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## 1.20 Door Closing Assist Control Module -J657-

Below trim apron rail -A-.

A - Door Closing Assist Control Module -J657-

- ❑ with Rear Lid Closing Assist Motor -V382- , Rear Lid Opening Assist Unlock Stop Switch -F332- , Rear Lid Closing Assist Lock Stop Switch -F333-

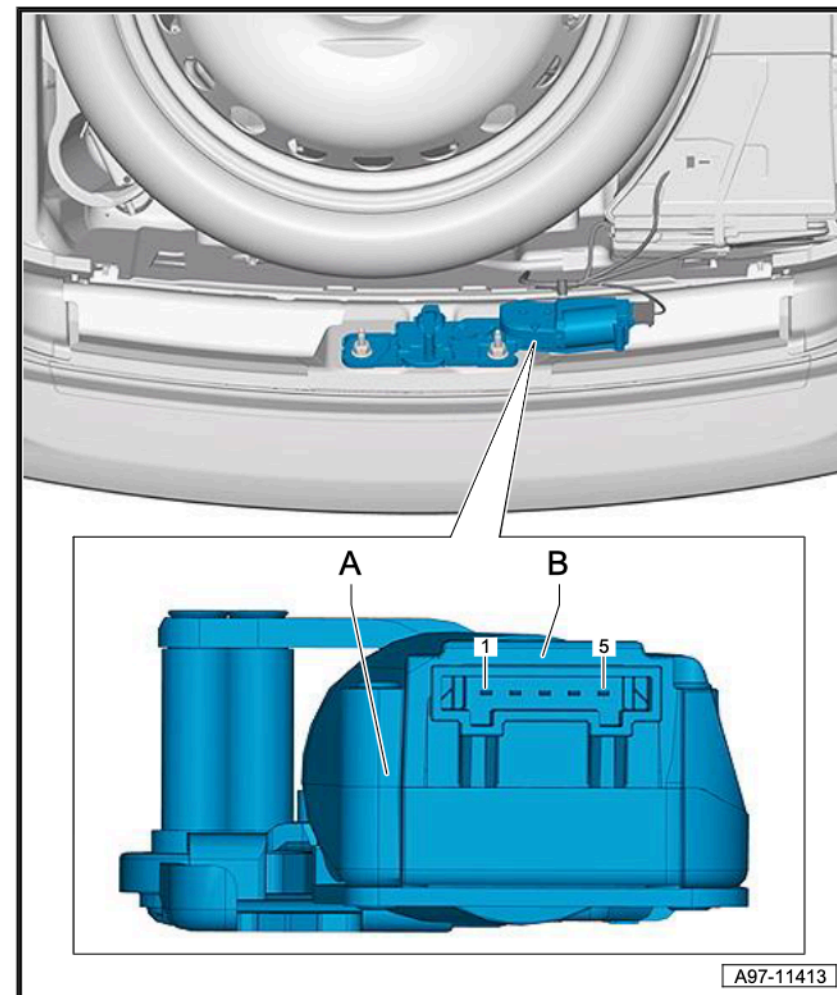
B - 5-Pin Connector -T5ag- , black



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## 1.21 Lane Change Assistance Control Module -J769-

In right rear bumper trim -A-.

A - Lane Change Assistance Control Module -J769-

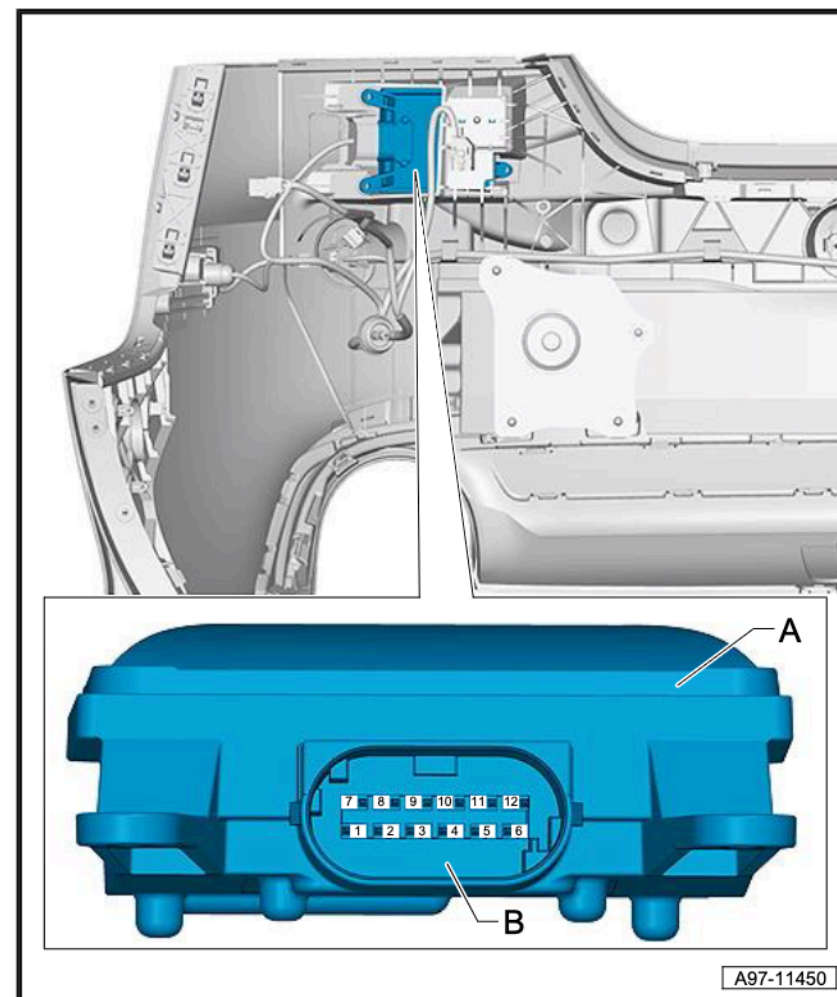
B - 12-Pin Connector -T12t- , black



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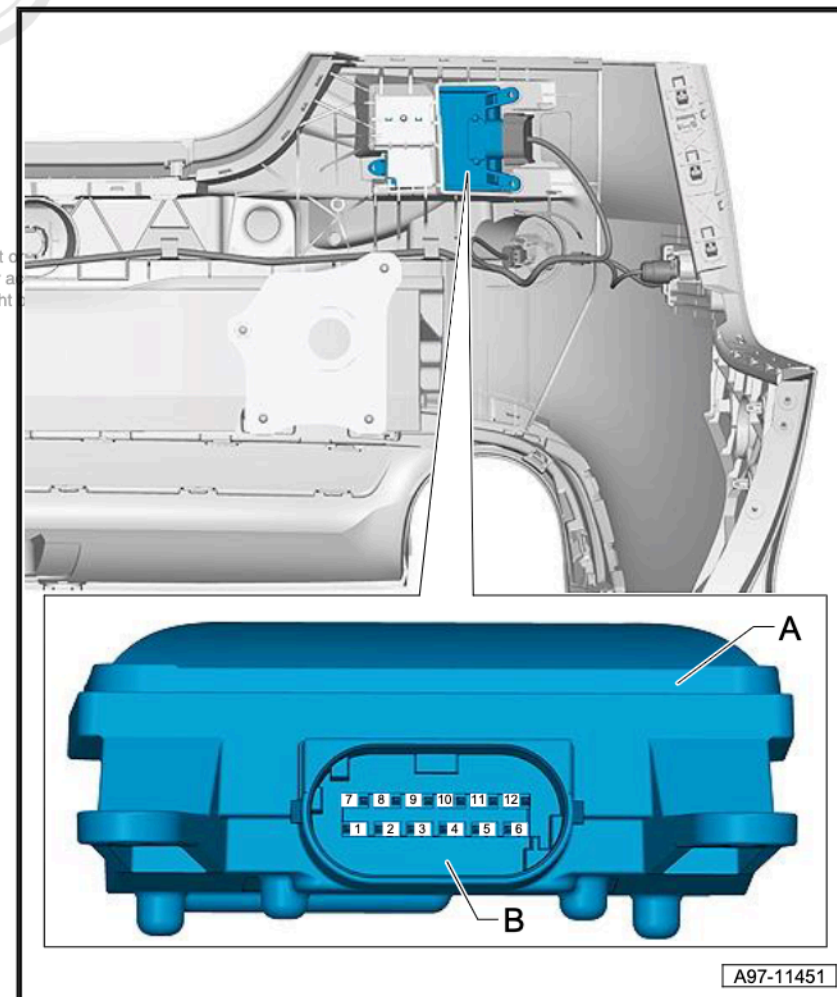
## 1.22 Lane Change Assistance Control Module 2 -J770-

In left rear bumper trim -A-.

A - Lane Change Assistance Control Module 2 -J770-

B - 12-Pin Connector -T12u- , black

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## 1.23 Auxiliary Heater RF Receiver -R64-

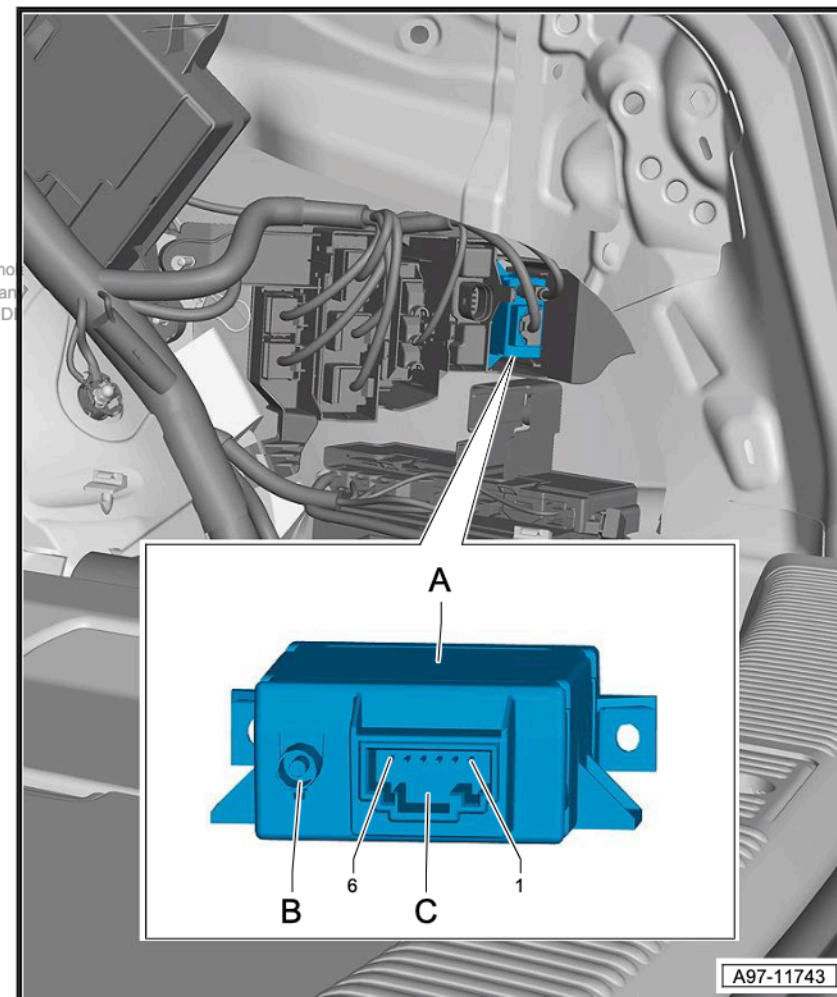
In right luggage compartment, behind side panel trim -A-.

A - Auxiliary Heater RF Receiver -R64-

B - 2-Pin Connector -T2cv- , to Roof Antenna -R216-

C - 6-Pin Connector -T6v- , blue

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## 1.24 Vehicle positioning system interface control module -J843-

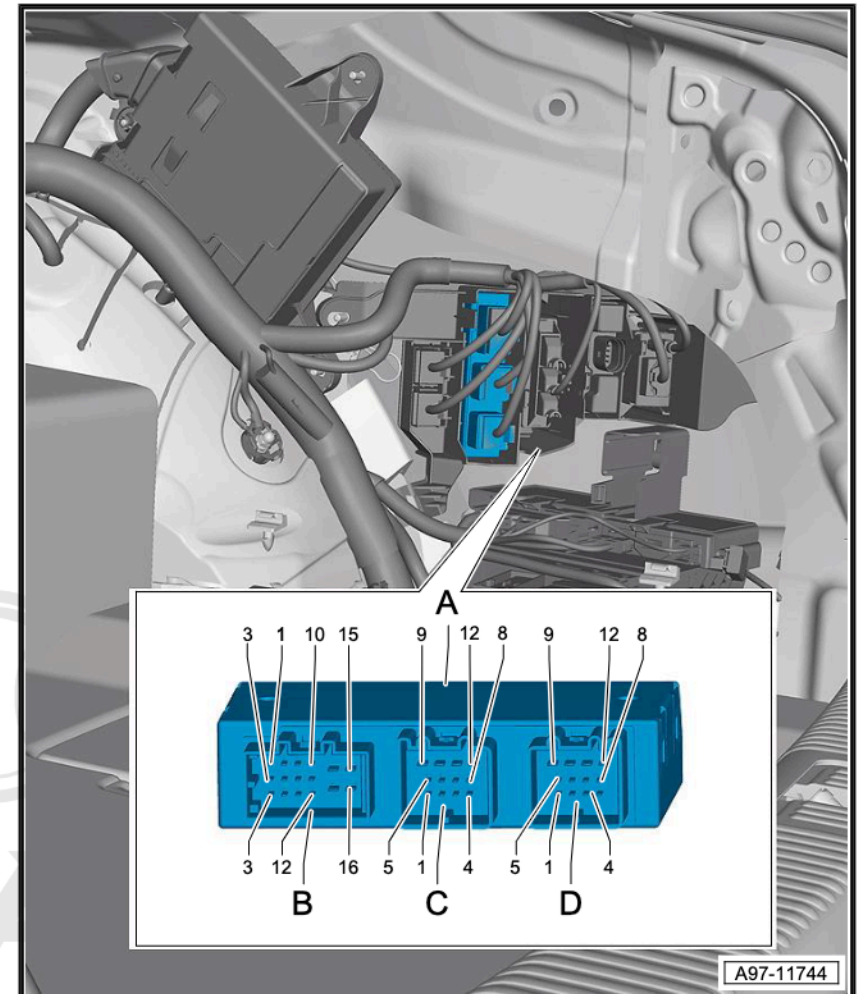
In right luggage compartment, behind side panel trim -A-.

A - Vehicle positioning system interface control module -J843-

B - Not used

C - 12-Pin Connector -T12o- , brown

D - Not used



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## 1.25 Engine Sound Generator Control Module -J943-

⇒ ["1.25.1 Engine Sound Generator Control Module J943 , Models without Hybrid Drive", page 32](#)

⇒ ["1.25.2 Engine Sound Generator Control Module J943 , Models with Hybrid Drive, from July 2017", page 33](#)

### 1.25.1 Engine Sound Generator Control Module -J943- , Models without Hybrid Drive

In right luggage compartment, behind side panel trim -A-.

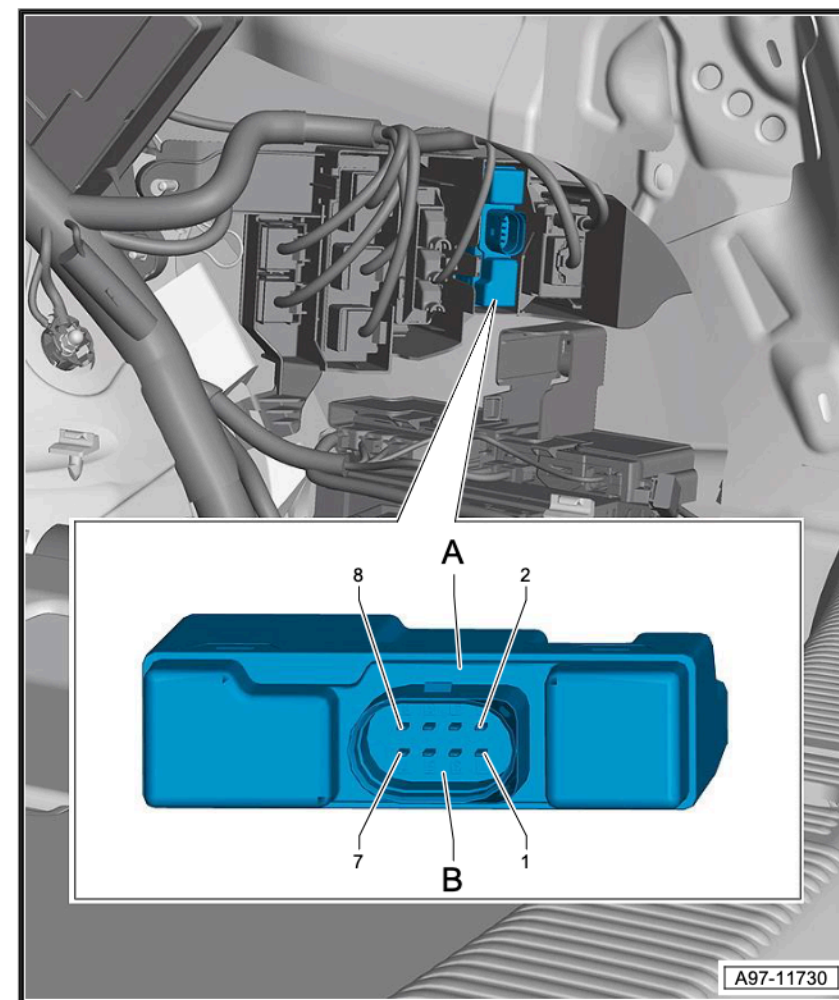
A - Engine Sound Generator Control Module -J943-

B - 8-Pin Connector -T8ax- , black



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## 1.25.2 Engine Sound Generator Control Module -J943- , Models with Hybrid Drive, from July 2017

In right center luggage compartment before Hybrid Battery Unit -AX1- .

1 - Engine Sound Generator Control Module -J943-

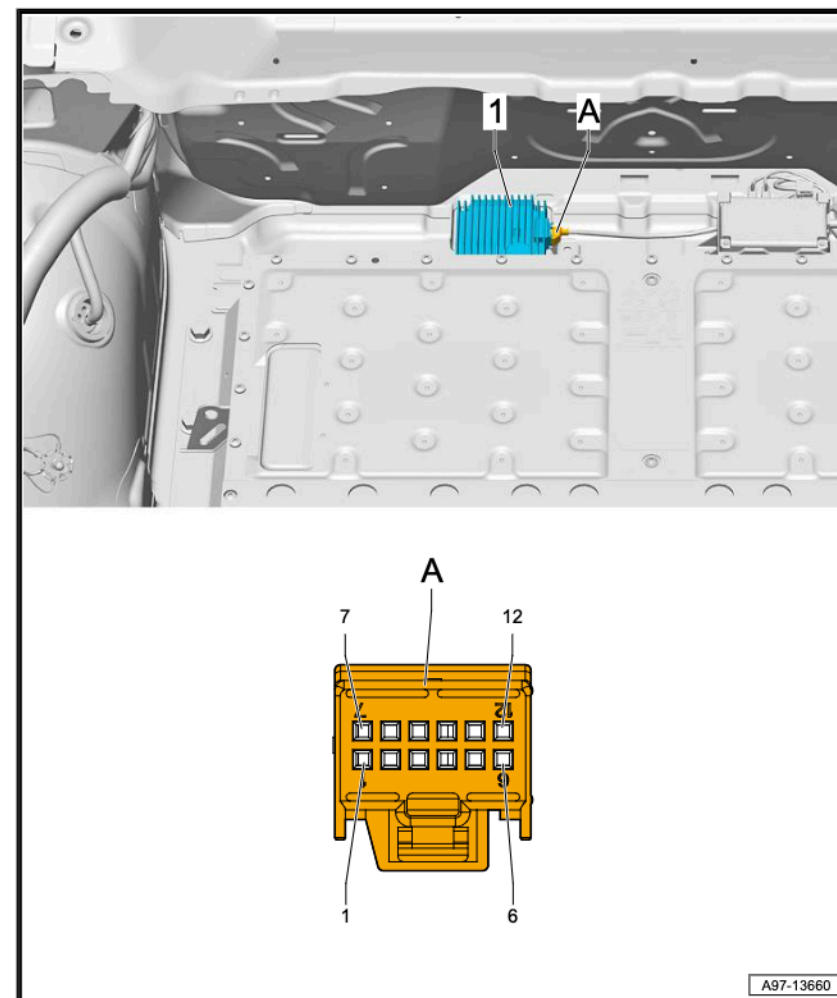
A - 12-Pin Connector -T12ar- , black



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## 1.26 Battery Monitoring Control Module -J367-

In luggage compartment on Battery -A- -4-.

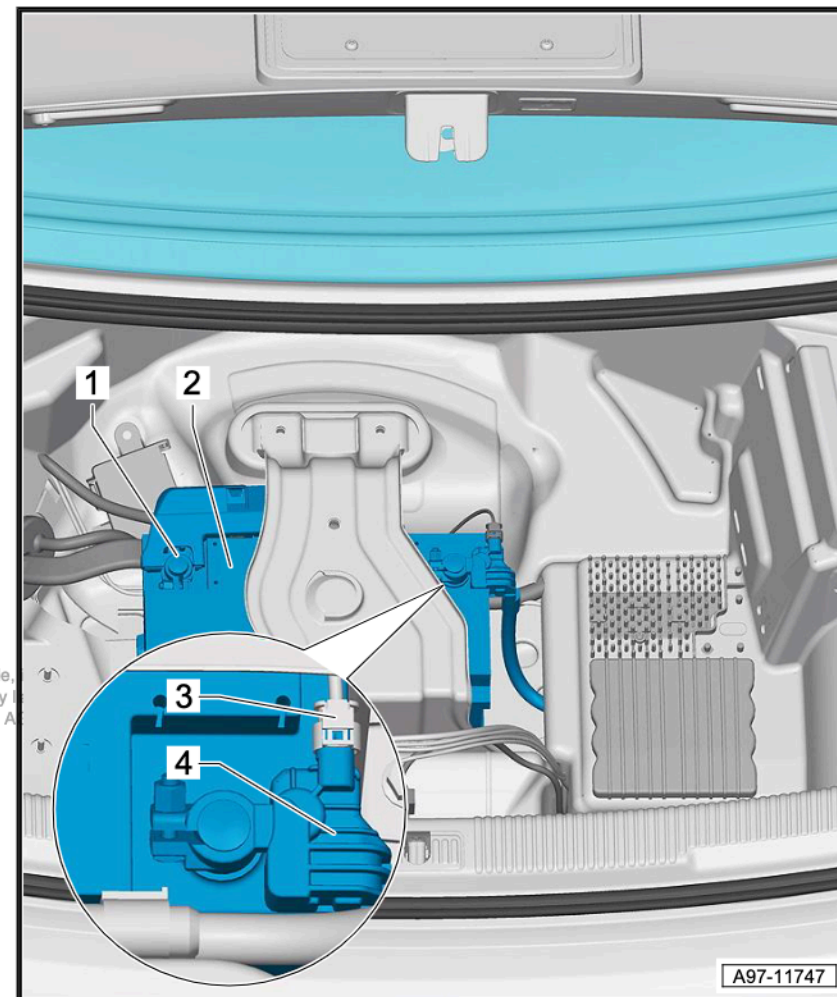
- 1 - Battery positive connector
- 2 - Battery -A-
- 3 - 2-Pin Connector -T2a- , yellow
- 4 - Battery Monitoring Control Module -J367-



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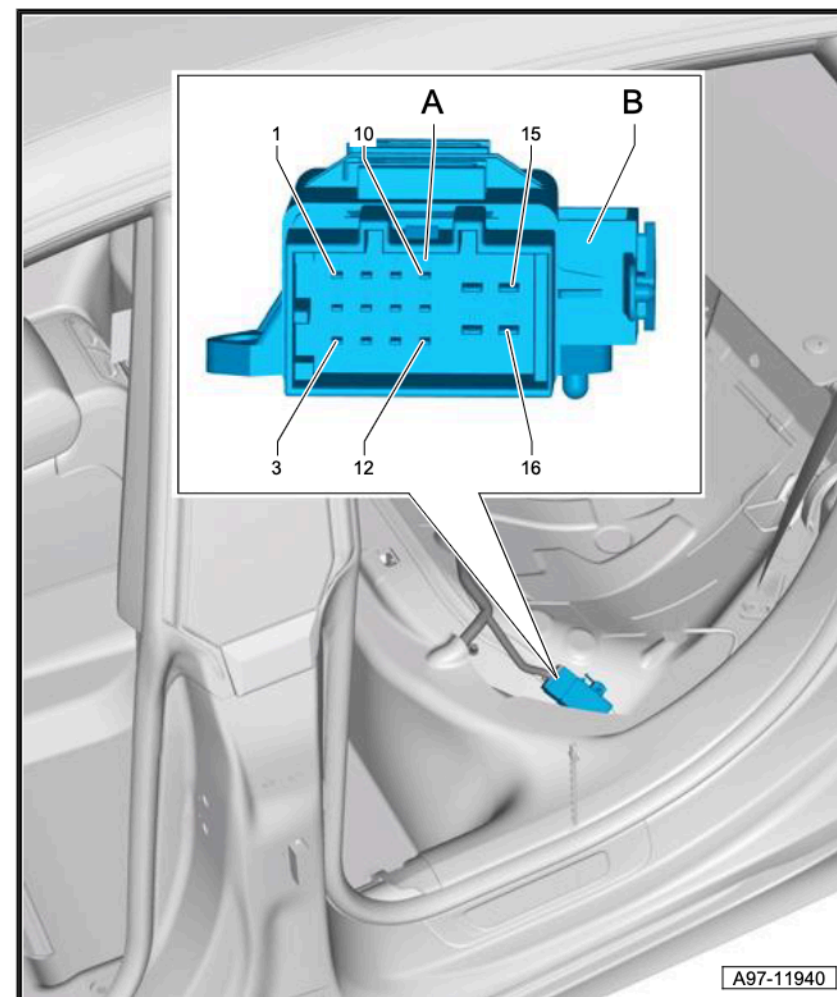
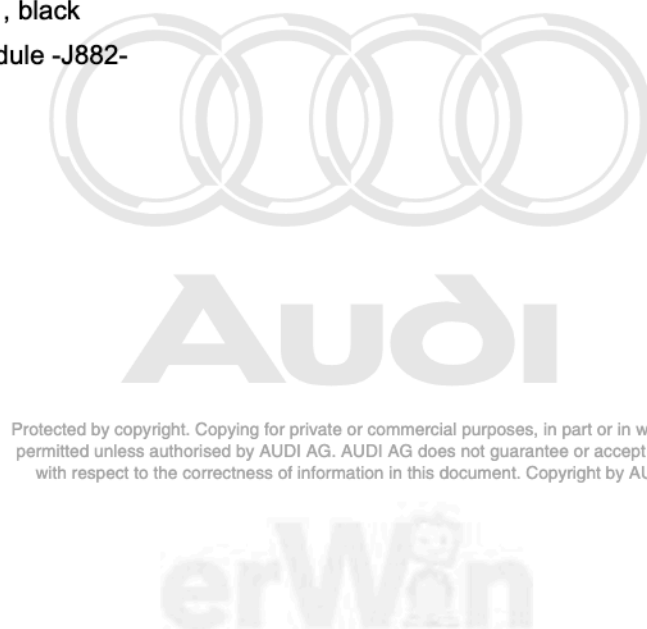
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## 1.27 Seat Heating Control Module -J882-

Below rear seat, left -A-.

A - 16-Pin Connector -T16d- , black

B - Seat Heating Control Module -J882-



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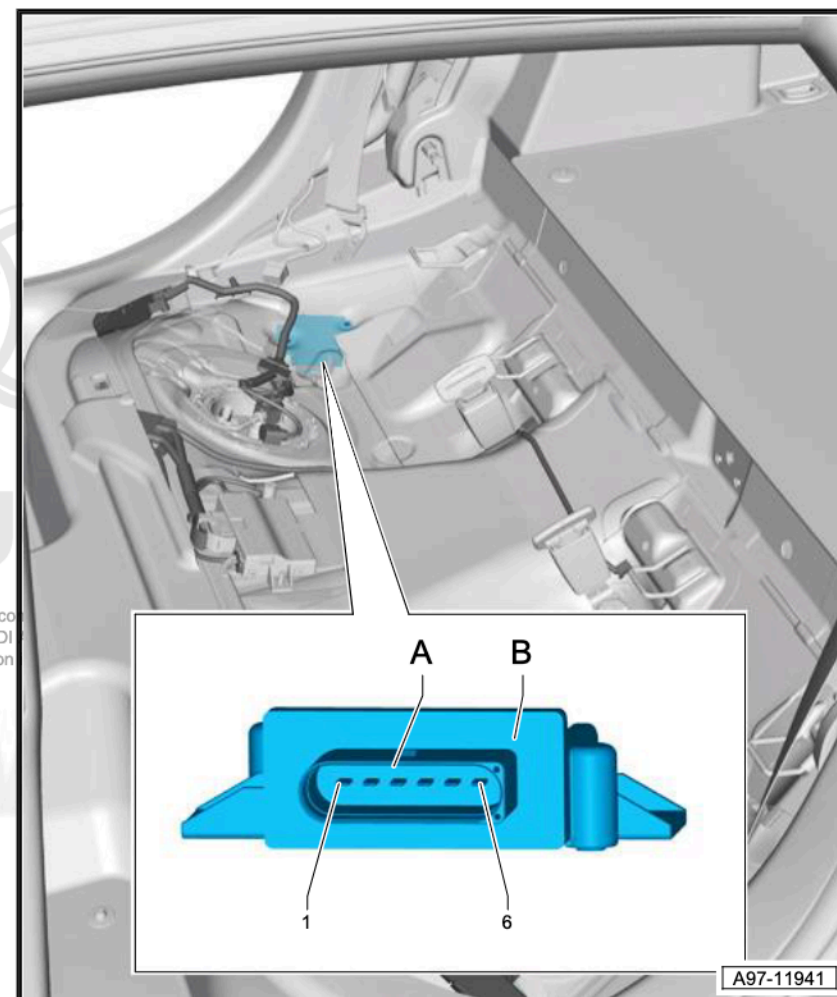
## 1.28 Fuel Pump (FP) Control Module -J538-

Below rear seat, right, on underbody -A-.

A - 6-Pin Connector -T6ar- , black

B - Fuel Pump (FP) Control Module -J538-

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## 1.29 Fuel Tank Lead Detection Control Module -J909-

On underbody, on tank left -1-.

1 - Fuel Tank Lead Detection Control Module -J909-

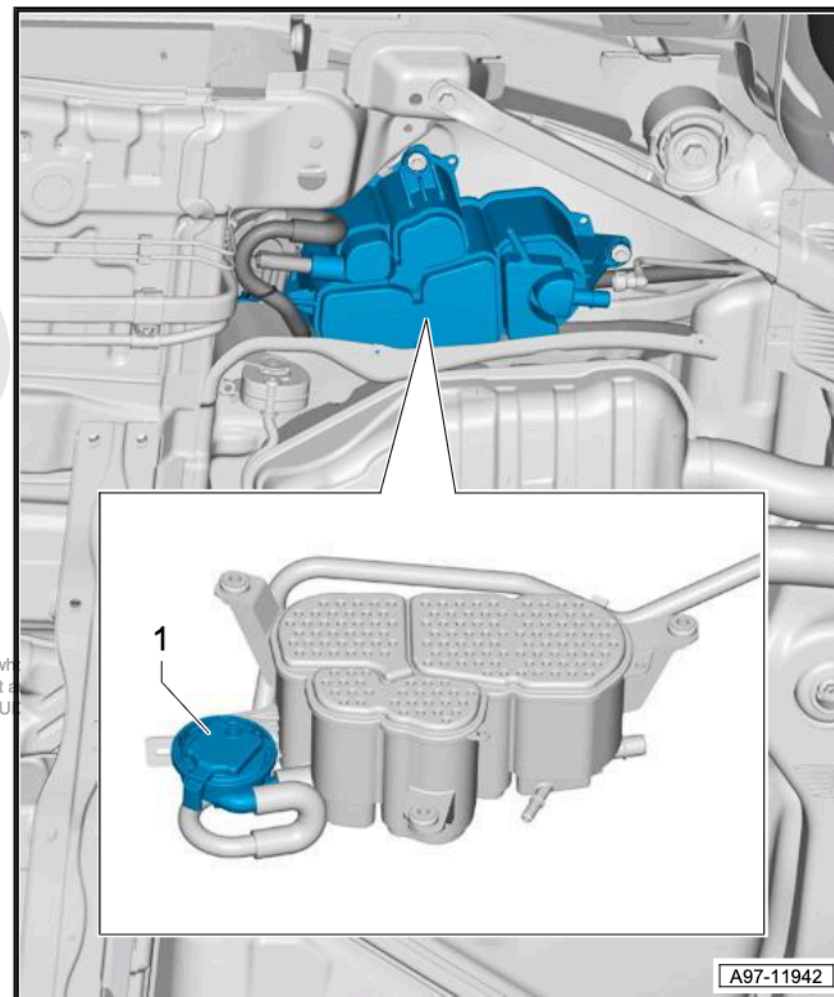
❑ 3 Pin Connector -T3s- , black



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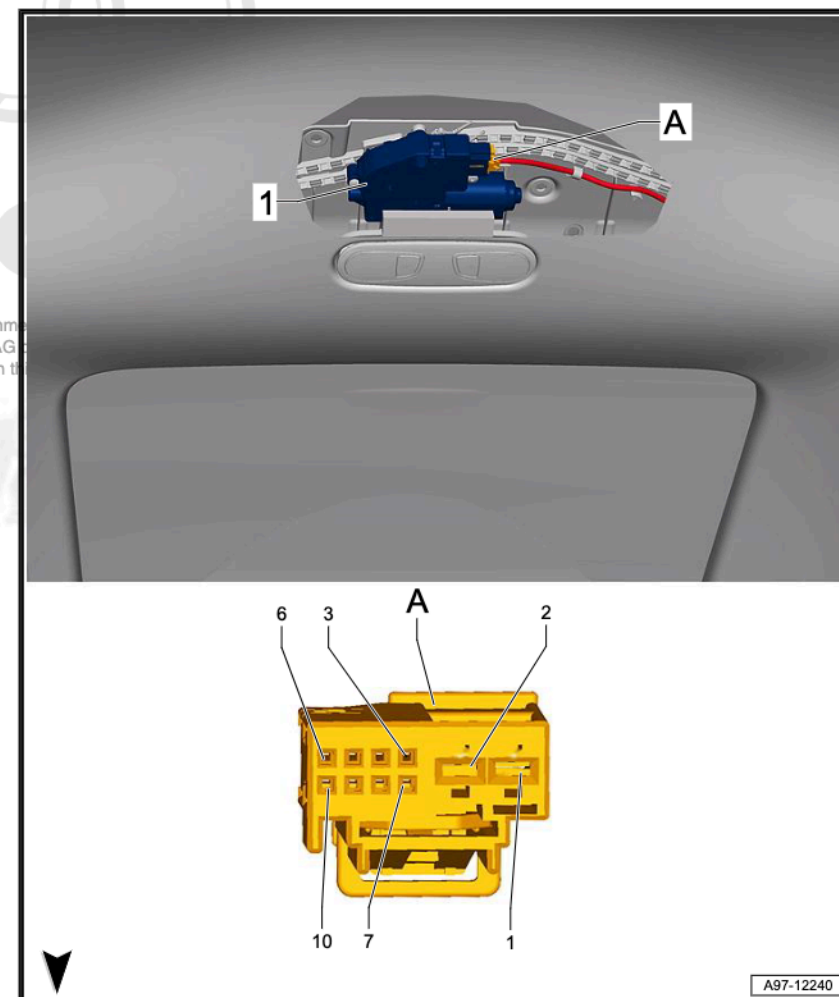
### 1.30 Roof shade control module -J394- / Sunroof Blind Motor -V260-

On roof, rear -1-.

1 - Roof shade control module -J394- / Sunroof Blind Motor -V260-

A - 10-Pin Connector -T10ar-

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## Pin Arrangements Roof shade control module -J394-

-T10ar- (A)	Designation	-T10ar- (A)	Designation
1	LIN-Bus (B577) LIN-Bus Connection (in roof wiring harness) (B699) LIN-Bus Connection 4 (in main wiring harness) Comfort System Central Control Module -J393-	6	Not used
2		7	Not used
3		8	Bridge to pin 4
4	Bridge to pin 8	9	Terminal 31, to (178) Ground connection (in sunroof wiring harness) (369) Ground Connection 4 (in main wiring harness) (44) Ground Connection (on left lower A-pillar)
5	Folding Sunroof Button 2 -E585-	10	Terminal 30, from Fuse Panel B -SB-

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### 1.31 Air Ionization System Control Module -J897-

On right B-pillar -1-.

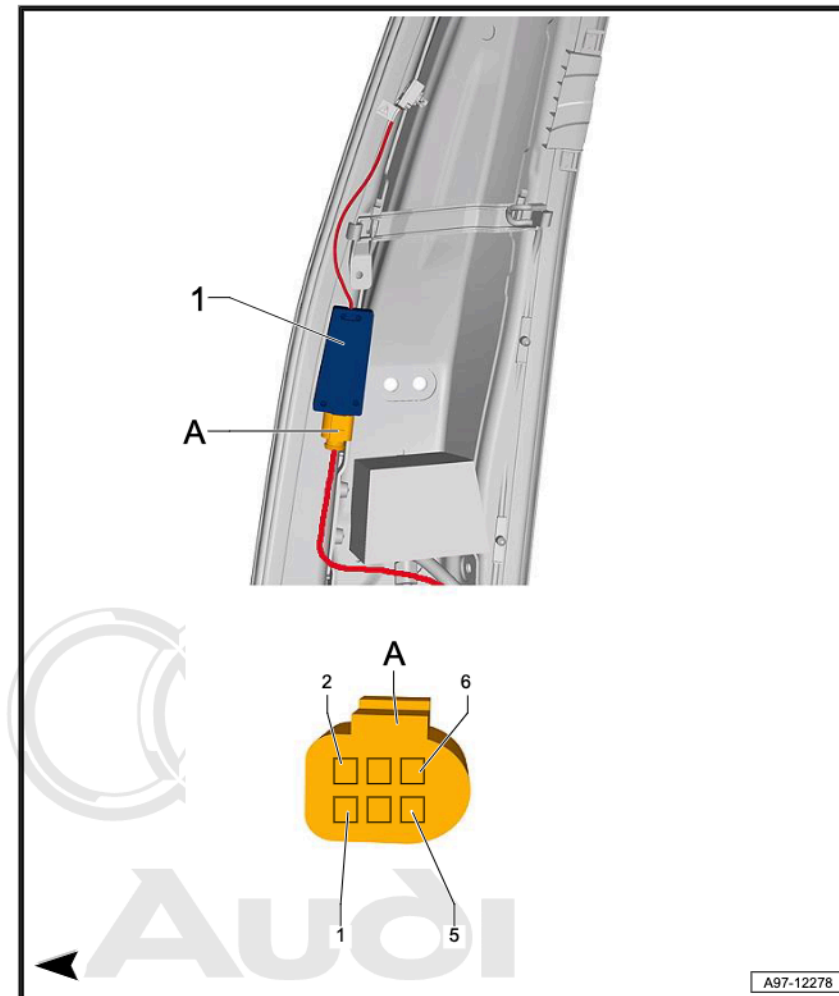


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1 - Air Ionization System Control Module -J897-

A - 6-Pin Connector -T6bp- , black



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#### Pin Arrangements Air Ionization System Control Module -J897-

-T6bp-(A)	Designation	-T6bp-(A)	Designation
1	Terminal 15, from <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">B281</span> Positive connection 5 (15a) in main wiring harness Fuse Panel B -SB-	4	Air ionization system button -E677-



-T6bp-(A)	Designation		-T6bp-(A)	Designation
2	Terminal 31, to <sup>(366)</sup> Ground Connection 1 (in main wiring harness) <sup>(44)</sup> Ground Connection (on left lower A-pillar)		5	Air ionization system button -E677-
3	LIN-Bus, Rear A/C Display Control Head -E265-		6	Air ionization system button -E677-

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### 1.32 Rear lid opener control module -J938-

Behind rear bumper cover -1-.



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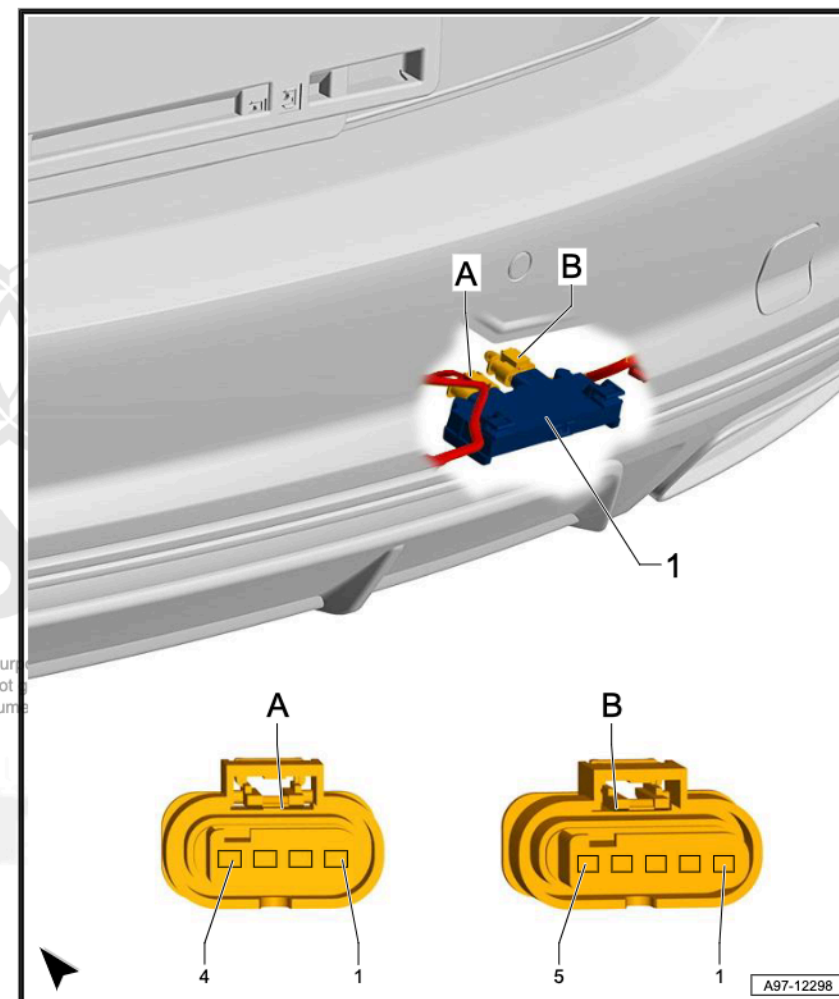
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1 - Rear lid opener control module -J938-


A - 4-Pin Connector -T4fh- , black

B - 5-Pin Connector -T5ao- , black

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Pin Arrangements Rear lid opener control module -J938-

-T4fh- (A)	Designation	-T5ao- (B)	Designation
1	Terminal 30, from Rear Lid Remote Unlocking Fuse -S195-	1	Power rear lid opener sensor -G750-
2	Terminal 31, to  Ground connection in spare tire well	2	Power rear lid opener sensor -G750-
3	LIN-Bus, to Comfort System Central Control Module -J393-	3	

-T4fh- (A)	Designation		-T5ao- (B)	Designation
4			4	Power rear lid opener sensor 2 -G760-
			5	Power rear lid opener sensor 2 -G760-

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### 1.33 TV Tuner -R78- , from model year 2015

In left luggage compartment, behind side panel trim -1-.



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# 1 - TV Tuner -R78-

A - 2-Pin Connector -T2ne- , brown, TV1, Antenna Amplifier 3 -R112- (Sedan)/ Antenna Amplifier -R24- (Avant)

B - 4-Pin Connector -T4as- , green, TV2/TV3, Antenna Amplifier -R24- , Antenna Amplifier 4 -R113- (Sedan)/ Antenna Amplifier 3 -R112- , Antenna Amplifier 4 -R113- (Avant)

C - Not used

D - 2-Pin Connector -T2lq- , MOST-Bus, black

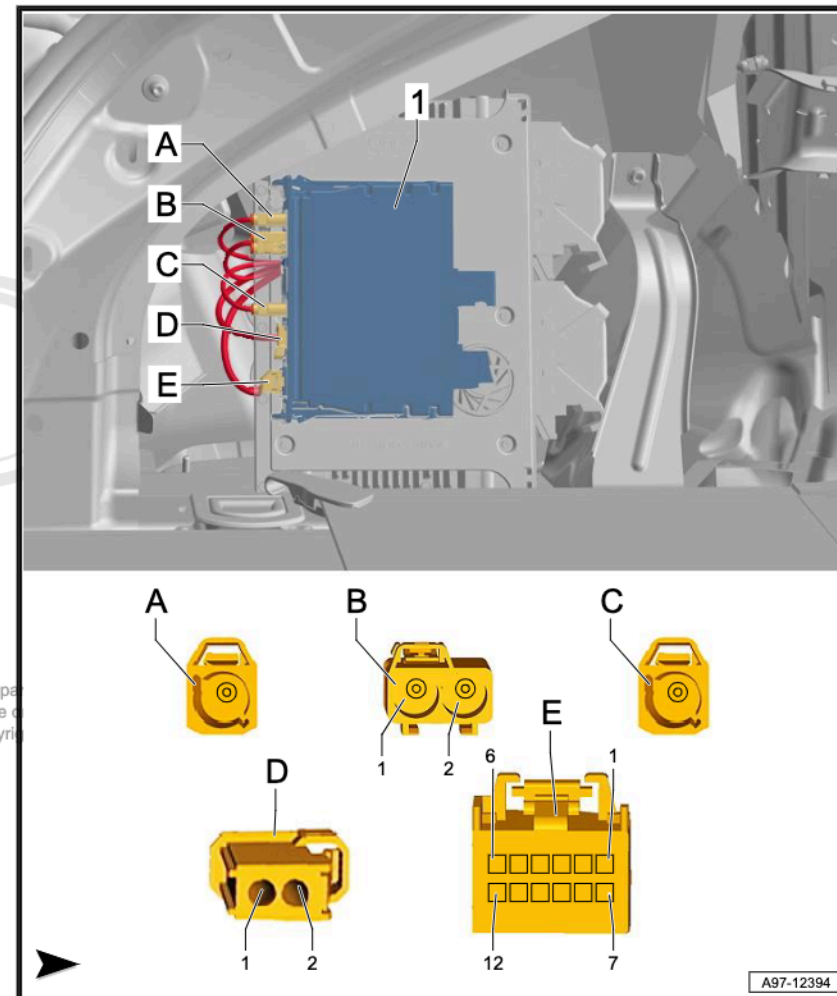
E - 12-Pin Connector -T12af- , black



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## Pin Arrangements TV Tuner -R78-

-T12af- (E)	Designation	-T12af- (E)	Designation
1	Terminal 30, from Fuse Panel F -SF-	7	Audio out L
2	Terminal 31, to 50 Ground Connection (in left luggage compartment)	8	Audio out R
3	Ringbreak Diagnosis Wire (B444) OBD connection 1 (in main wiring harness)	9	Ground-shielding

-T12af- (E)	Designation		-T12af- (E)	Designation
4	Ground-shielding		10	Audio in L
5	Video out		11	Audio in R
6	Ground-shielding		12	Video in

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## 1.34 Digital Sound System Control Module -J525- , Audi sound system, 9VD, from model year 2015

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In left luggage compartment, behind side panel trim -1-.



Note

- ◆ The Digital Sound System Control Module -J525- is only installed in conjunction with noise compensation.
- ◆ For Audi sound system (9VD) without noise compensation (EP0), the speakers are connected directly to the control module.

1 - Digital Sound System Control Module -J525-

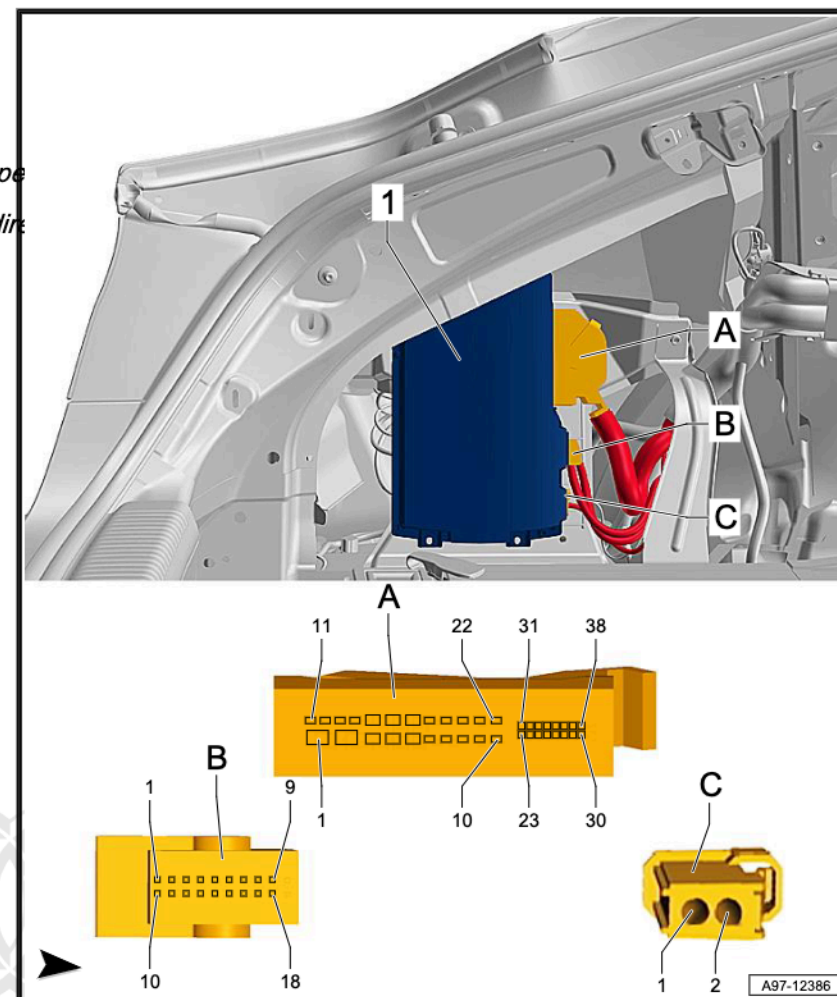
A - 38-Pin Connector -T38-, black

- Pin arrangements in conjunction with Radio (8DN, 8DP, 8DS) ⇒ [page 46](#)
- Pin arrangements in conjunction with MMI Navigation plus (I8H) ⇒ [page 48](#)

B - 18-Pin Connector -T18i-, black

- Pin arrangements in conjunction with Radio (8DN, 8DP, 8DS) ⇒ [page 46](#)
- Pin arrangements in conjunction with MMI Navigation plus (I8H) ⇒ [page 48](#)

C - 2-Pin Connector -T2ca-, MOST-Bus, black



Pin Arrangements Digital Sound System Control Module -J525-, Radio, 8DN, 8DP, 8DS

-T18i- (B)	Designation	-T38- (A)	Designation	-T38- (A)	Designation
1		1	Terminal 30, from Fuse Carrier 4 -ST4- in Fuse Panel F -SF-	20	Right Front Midrange Speaker -R104-

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-T18i- (B)	Designation	-T38- (A)	Designation	-T38- (A)	Designation
2		2	Terminal 31, to (50) Ground Connection (in left luggage compartment) <sup>1)</sup> (729) Ground connection on left rear wheel housing <sup>2)</sup>	21	Right Front Speaker -R3-
3		3	Right Rear Bass Speaker -R17- / Right Rear Treble Speaker -R16-	22	Left Front Speaker -R2-
4		4	Left Front Bass Speaker -R21-	23	
5		5	Subwoofer -R211-	24	
6	Noise Reduction Microphone 3 -R287-	6		25	Ringbreak Diagnosis Wire to (B444) OBD Connection 1 (in main wiring harness)
7	Noise Reduction Microphone 3 -R287-	7	Left Front Midrange Speaker -R103-	26	
8	Noise Reduction Microphone 4 -R288-	8	Right Front Midrange Speaker -R104-	27	
9	Noise Reduction Microphone 4 -R288-	9	Right Front Speaker -R3-	28	Ground-shielding for Interior microphone -R74- In the Microphone Unit (in front roof module) -R164-
10	Engine Control Module (ECM) -J623- / Subframe Mount Control Module -J931-	10	Left Front Speaker -R2-	29	Inside Microphone -R74- In the Microphone Unit (in front roof module) -R164-
11	Terminal 31, to (397) Ground Connection 32 (in main wiring harness)	11	Right Front Bass Speaker -R23-	30	Inside Microphone -R74- In the Microphone Unit (in front roof module) -R164-
12		12	Right Front Bass Speaker -R23-	31	Center speaker -R208-
13	Noise Reduction Microphone 2 -R286-	13	Left Rear Bass Speaker -R15- / Left Rear Treble Speaker -R14-	32	Center speaker -R208-
14	Noise Reduction Microphone 2 -R286-	14	Left Rear Bass Speaker -R15- / Left Rear Treble Speaker -R14-	33	
15		15	Right Rear Bass Speaker -R17- / Right Rear Treble Speaker -R16-	34	
16	Noise Reduction Microphone 1 -R285-	16	Left Front Bass Speaker -R21-	35	
17	Noise Reduction Microphone 1 -R285-	17	Subwoofer -R211-	36	
18		18		37	
		19	Left Front Midrange Speaker -R103-	38	

◆ 1) Only sedan

◆ 2) Only Avant

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Pin Arrangements Digital Sound System Control Module -J525- , MMI Navigation plus, I8H

-T18i- (B)	Designation	-T38- (A)	Designation	-T38- (A)	Designation
1		1	Terminal 30, from Fuse Carrier 4 -ST4- in Fuse Panel F -SF-	20	Right Rear Bass Speaker -R17- / Right Rear Treble Speaker -R16-
2		2	Terminal 31, to (50) Ground Connection (in left luggage compartment) <sup>1)</sup> (729) Ground connection on left rear wheel housing <sup>2)</sup>	21	
3		3		22	
4		4	Subwoofer -R211-	23	
5		5		24	
6	Noise Reduction Microphone 3 -R287-	6		25	Ringbreak Diagnosis Wire to (B444) OBD Connection 1 (in main wiring harness)
7	Noise Reduction Microphone 3 -R287-	7	Left Rear Bass Speaker -R15- / Left Rear Treble Speaker -R14-	26	Right Front Midrange Speaker -R104-
8	Noise Reduction Microphone 1 -R285-	8	Right Rear Bass Speaker -R17- / Right Rear Treble Speaker -R16-	27	Right Front Midrange Speaker -R104-
9	Noise Reduction Microphone 1 -R285-	9		28	Ground-shielding for Interior microphone -R74- In the Microphone Unit (in front roof module) -R164-
10	Engine Control Module (ECM) -J623- / Subframe Mount Control Module -J931-	10		29	Inside Microphone -R74- In the Microphone Unit (in front roof module) -R164-
11	Terminal 31, to (397) Ground Connection 32 (in main wiring harness)	11	Left Front Bass Speaker -R21-	30	Inside Microphone -R74- In the Microphone Unit (in front roof module) -R164-
12		12	Left Front Bass Speaker -R21-	31	Center speaker -R208-
13	Noise Reduction Microphone 4 -R288-	13	Right Front Bass Speaker -R23-	32	Center speaker -R208-
14	Noise Reduction Microphone 4 -R288-	14	Right Front Bass Speaker -R23-	33	Right Front Speaker -R3-
15		15		34	Right Front Speaker -R3-
16	Noise Reduction Microphone 2 -R286-	16	Subwoofer -R211-	35	Left Front Speaker -R2-
17	Noise Reduction Microphone 2 -R286-	17		36	Left Front Speaker -R2-
18		18		37	Left Front Midrange Speaker -R103-
		19	Left Rear Bass Speaker -R15- / Left Rear Treble Speaker -R14-	38	Left Front Midrange Speaker -R103-

♦ 1) Only sedan

♦ 2) Only Avant

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### 1.35 Digital Sound System Control Module -J525- , Bose Surround Sound, 8RY, from model year 2015

In left luggage compartment, behind side panel trim -1-.

1 - Digital Sound System Control Module -J525-

A - 38-Pin Connector -T38- , black

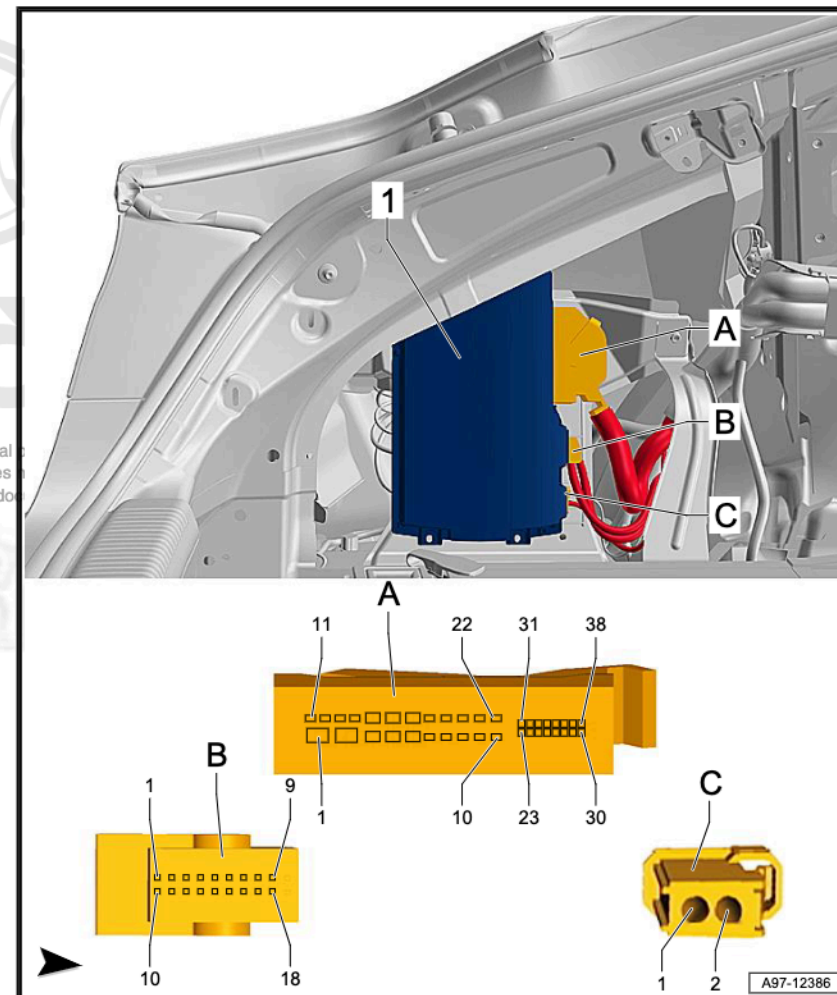
- ☐ Pin arrangements in conjunction with Radio (8DN, 8DP, 8DS) [⇒ page 50](#)
- ☐ Pin arrangements in conjunction with MMI Navigation plus (I8H) [⇒ page 51](#)

B - 18-Pin Connector -T18i- , black

- ☐ Pin arrangements in conjunction with Radio (8DN, 8DP, 8DS) [⇒ page 50](#)
- ☐ Pin arrangements in conjunction with MMI Navigation plus (I8H) [⇒ page 51](#)

C - 2-Pin Connector -T2ca- , MOST-Bus, black

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Pin Arrangements Digital Sound System Control Module -J525- , Radio, 8DN, 8DP, 8DS

-T18i- (B)	Designation	-T38- (A)	Designation	-T38- (A)	Designation
1		1	Terminal 30, from Fuse Carrier 4 -ST4- in Fuse Panel F -SF-	20	Right Front Midrange Speaker -R104-
2		2	Terminal 31, to (50) Ground Connection (in left luggage compartment) <sup>2)</sup> (729) Ground connection on left rear wheel housing <sup>3)</sup>	21	Right Front Speaker -R3-
3		3	Right Rear Bass Speaker -R17- / Right Rear Treble Speaker -R16-	22	Left Front Speaker -R2-
4		4	Left Front Bass Speaker -R21-	23	
5		5	Subwoofer -R211-	24	
6	Noise Reduction Microphone 3 -R287- 1)	6		25	Ringbreak Diagnosis Wire to (B444) OBD Connection 1 (in main wiring harness)
7	Noise Reduction Microphone 3 -R287- 1)	7	Left Front Midrange Speaker -R103-	26	
8	Noise Reduction Microphone 4 -R288- 1)	8	Right Front Midrange Speaker -R104-	27	
9	Noise Reduction Microphone 4 -R288- 1)	9	Right Front Speaker -R3-	28	Ground-shielding for Interior microphone -R74- In the Microphone Unit (in front roof module) -R164-
10	Engine Control Module (ECM) -J623- / Subframe Mount Control Module -J931- 1)	10	Left Front Speaker -R2-	29	Inside Microphone -R74- In the Microphone Unit (in front roof module) -R164-
11	Terminal 31, to (397) Ground Connection 32 in main wiring harness 1)	11	Right Front Bass Speaker -R23-	30	Inside Microphone -R74- In the Microphone Unit (in front roof module) -R164-
12		12	Right Front Bass Speaker -R23-	31	Center speaker -R208-
13	Noise Reduction Microphone 2 -R286- 1)	13	Left Rear Bass Speaker -R15- / Left Rear Treble Speaker -R14-	32	Center speaker -R208-
14	Noise Reduction Microphone 2 -R286- 1)	14	Left Rear Bass Speaker -R15- / Left Rear Treble Speaker -R14-	33	Left effects speaker -R209-
15		15	Right Rear Bass Speaker -R17- / Right Rear Treble Speaker -R16-	34	Left effects speaker -R209-
16	Noise Reduction Microphone 1 -R285- 1)	16	Left Front Bass Speaker -R21-	35	
17	Noise Reduction Microphone 1 -R285- 1)	17	Subwoofer -R211-	36	
18		18		37	Right effects speaker -R210-
		19	Left Front Midrange Speaker -R103-	38	Right effects speaker -R210-

♦ 1) Only for vehicles with noise compensation, EP1



♦ 2) Only sedan

♦ 3) Only Avant

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Pin Arrangements Digital Sound System Control Module -J525- , MMI Navigation plus, I8H

-T18i- (B)	Designation	-T38- (A)	Designation	-T38- (A)	Designation
1		1	Terminal 30, from Fuse Carrier 4 -ST4- in Fuse Panel F -SF-	20	Right Rear Bass Speaker -R17- / Right Rear Treble Speaker -R16-
2		2	Terminal 31, to (50) Ground Connection (in left luggage compartment) <sup>2)</sup> (729) Ground connection on left rear wheel housing <sup>3)</sup>	21	Left effects speaker -R209-
3		3		22	Right effects speaker -R210-
4		4	Subwoofer -R211-	23	
5		5		24	
6	Noise Reduction Microphone 3 -R287- <sup>1)</sup>	6		25	Ringbreak Diagnosis Wire to (B444) OBD Connection 1 (in main wiring harness)
7	Noise Reduction Microphone 3 -R287- <sup>1)</sup>	7	Left Rear Bass Speaker -R15- / Left Rear Treble Speaker -R14-	26	Right Front Midrange Speaker -R104-
8	Noise Reduction Microphone 1 -R285- <sup>1)</sup>	8	Right Rear Bass Speaker -R17- / Right Rear Treble Speaker -R16-	27	Right Front Midrange Speaker -R104-
9	Noise Reduction Microphone 1 -R285- <sup>1)</sup>	9	Left effects speaker -R209-	28	Ground-shielding for Interior microphone -R74- In the Microphone Unit (in front roof module) -R164-
10	Engine Control Module (ECM) -J623- / Subframe Mount Control Module -J931- <sup>1)</sup>	10	Right effects speaker -R210-	29	Inside Microphone -R74- In the Microphone Unit (in front roof module) -R164-
11	Terminal 31, to (397) Ground Connection 32 in main wiring harness <sup>1)</sup>	11	Left Front Bass Speaker -R21-	30	Inside Microphone -R74- In the Microphone Unit (in front roof module) -R164-
12		12	Left Front Bass Speaker -R21-	31	Center speaker -R208-
13	Noise Reduction Microphone 4 -R288- <sup>1)</sup>	13	Right Front Bass Speaker -R23-	32	Center speaker -R208-
14	Noise Reduction Microphone 4 -R288- <sup>1)</sup>	14	Right Front Bass Speaker -R23-	33	Right Front Speaker -R3-
15		15		34	Right Front Speaker -R3-
16	Noise Reduction Microphone 2 -R286- <sup>1)</sup>	16	Subwoofer -R211-	35	Left Front Speaker -R2-
17	Noise Reduction Microphone 2 -R286- <sup>1)</sup>	17		36	Left Front Speaker -R2-

-T18i- (B)	Designation		-T38- (A)	Designation		-T38- (A)	Designation
18			18			37	Left Front Midrange Speaker -R103-
			19	Left Rear Bass Speaker -R15- / Left Rear Treble Speaker -R14-		38	Left Front Midrange Speaker -R103-

◆ 1) Only for vehicles with noise compensation, EP1

◆ 2) Only sedan

◆ 3) Only Avant

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### 1.36 Digital Sound System Control Module -J525- , Bang & Olufsen Advanced Sound System, 8RF, from model year 2015

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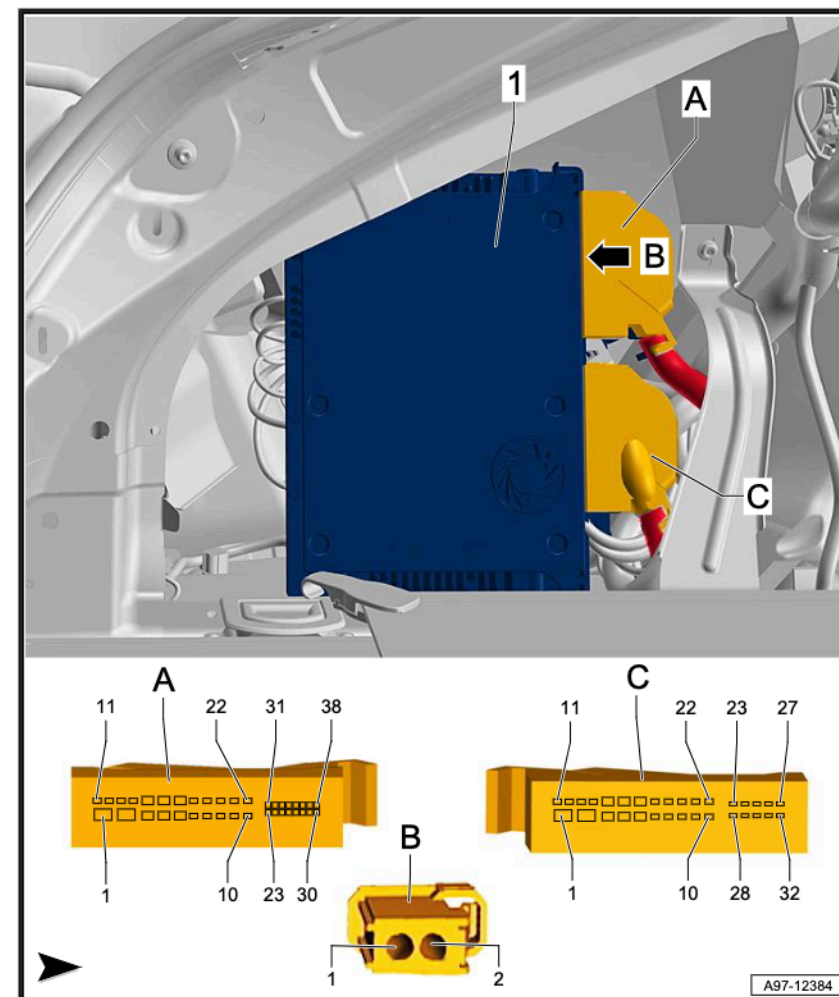
In left luggage compartment, behind side panel trim -1-.

1 - Digital Sound System Control Module -J525-

A - 38-Pin Connector -T38- , black

B - 2-Pin Connector -T2ca- , MOST-Bus, black

C - 32-Pin Connector -T32e- , black



Pin Arrangements Digital Sound System Control Module -J525-

-T32e- (C)	Designation	-T38- (A)	Designation
1		1	Terminal 30, from Fuse 1 - terminal 30 -S204- in Fuse Panel F -SF-
2		2	Terminal 31, to 50 Ground Connection (in left luggage compartment)
3		3	Subwoofer -R211-
4		4	Left Front Bass Speaker -R21-
5	Left Front Midrange Speaker -R103-	5	Right Front Bass Speaker -R23-

-T32e- (C)	Designation		-T38- (A)	Designation
6	Right Front Midrange Speaker -R104-		6	Left Rear Bass Speaker -R15-
7	Left Rear Treble Speaker -R14-		7	Right Rear Bass Speaker -R17-
8	Right Rear Treble Speaker -R16-		8	Left Front Treble Speaker Motor -V344-
9	Left effects speaker -R209-		9	Left Front Treble Speaker Motor -V344-
10	Center speaker -R208-		10	Left Front Treble Speaker Motor -V344-
11			11	
12			12	
13	Ringbreak Diagnosis Wire to (B444) OBD Connection 1 (in main wiring harness)		13	
14			14	Engine Control Module (ECM) -J623- / Subframe Mount Control Module -J931- 1)
15			15	Subwoofer -R211-
16	Terminal 31, to (397) Ground Connection 32 in main wiring harness 1)		16	Left Front Bass Speaker -R21-
17	Left Front Midrange Speaker -R103-		17	Right Front Bass Speaker -R23-
18	Right Front Midrange Speaker -R104-		18	Left Rear Bass Speaker -R15-
19	Left Rear Treble Speaker -R14-		19	Right Rear Bass Speaker -R17-
20	Right Rear Treble Speaker -R16-		20	Right Front Treble Speaker Motor -V345-
21	Left effects speaker -R209-		21	Right Front Treble Speaker Motor -V345-
22	Center speaker -R208-		22	Right Front Treble Speaker Motor -V345-
23	Right effects speaker -R210-		23	Inside Microphone -R74- In the Microphone Unit (in front roof module) -R164-
24			24	Noise Reduction Microphone 1 -R285- 1)
25	Center speaker 2 -R219-		25	Noise Reduction Microphone 2 -R286- 1)
26	Left Front Treble Speaker -R20-		26	Noise Reduction Microphone 3 -R287- 1)
27	Right Front Treble Speaker -R22-		27	Noise Reduction Microphone 4 -R288- 1)
28	Right effects speaker -R210-		28	
29			29	
30	Center speaker 2 -R219-		30	
31	Left Front Treble Speaker -R20-		31	Inside Microphone -R74- In the Microphone Unit (in front roof module) -R164-
32	Right Front Treble Speaker -R22-		32	Noise Reduction Microphone 1 -R285- 1)
			33	Noise Reduction Microphone 2 -R286- 1)
			34	Noise Reduction Microphone 3 -R287- 1)
			35	Noise Reduction Microphone 4 -R288- 1)

-T32e- (C)	Designation		-T38- (A)	Designation
			36	
			37	
			38	

♦ 1) Only for vehicles with noise compensation, EP1

Back to overview ⇒ [page 1](#) .

## 1.37 Rear View Camera System Control Module -J772-

⇒ ["1.37.1 Rear View Camera System Control Module J772 , through model year 2014", page 55](#)

⇒ ["1.37.2 Rear View Camera System Control Module J772 , model year 2015", page 57](#)

⇒ ["1.37.3 Rear View Camera System Control Module J772 , from model year 2016", page 59](#)

### 1.37.1 Rear View Camera System Control Module -J772- , through model year 2014

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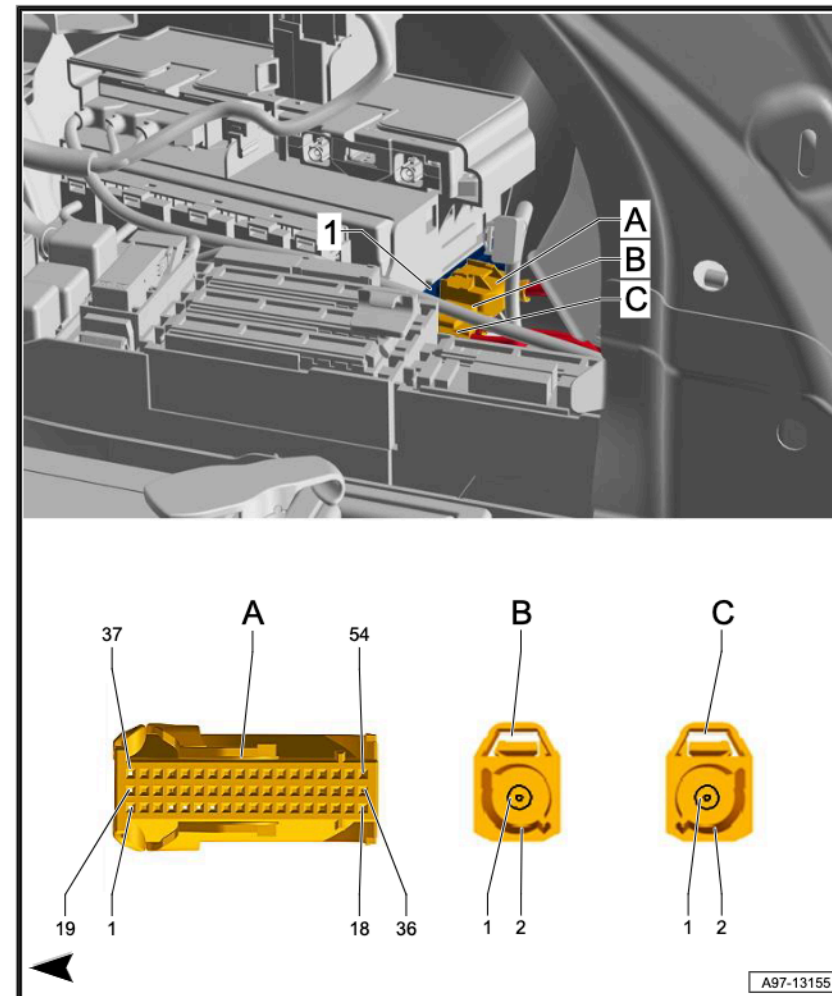
In right luggage compartment, behind side panel trim -1-.

1 - Rear View Camera System Control Module -J772-

A - 54-Pin Connector -T54a-

B - 2-Pin Connector -T2df- , green, Control Module for Information Electronics 1 -J794-

C - 2-Pin Connector -T2dg- , gray, Rear View Camera -R189-



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#### Pin Arrangements Rear View Camera System Control Module -J772-

-T54a-	Designation	-T54a-	Designation	-T54a-	Designation
1		19		37	
2		20		38	
3		21		39	CAN-Bus Instrument Cluster Low, to Wiring junction for instrument cluster CAN Bus, Low -TV40-

-T54a-	Designation	-T54a-	Designation	-T54a-	Designation
4		22		40	CAN-Bus Instrument Cluster High, to Wiring junction for instrument cluster CAN-Bus, High -TV36-
5		23		41	
6		24		42	
7		25		43	Terminal 30, from Fuse Carrier 3 -ST3- in Fuse Panel F -SF-
8		26		44	Terminal 31, to <sup>51</sup> Ground Connection (in right luggage compartment)
9		27		45	
10		28		46	
11		29		47	Rear View Camera -R189-
12		30		48	Rear View Camera -R189-
13		31		49	
14		32		50	
15		33		51	
16		34		52	
17		35		53	
18		36		54	

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### 1.37.2 Rear View Camera System Control Module -J772- , model year 2015

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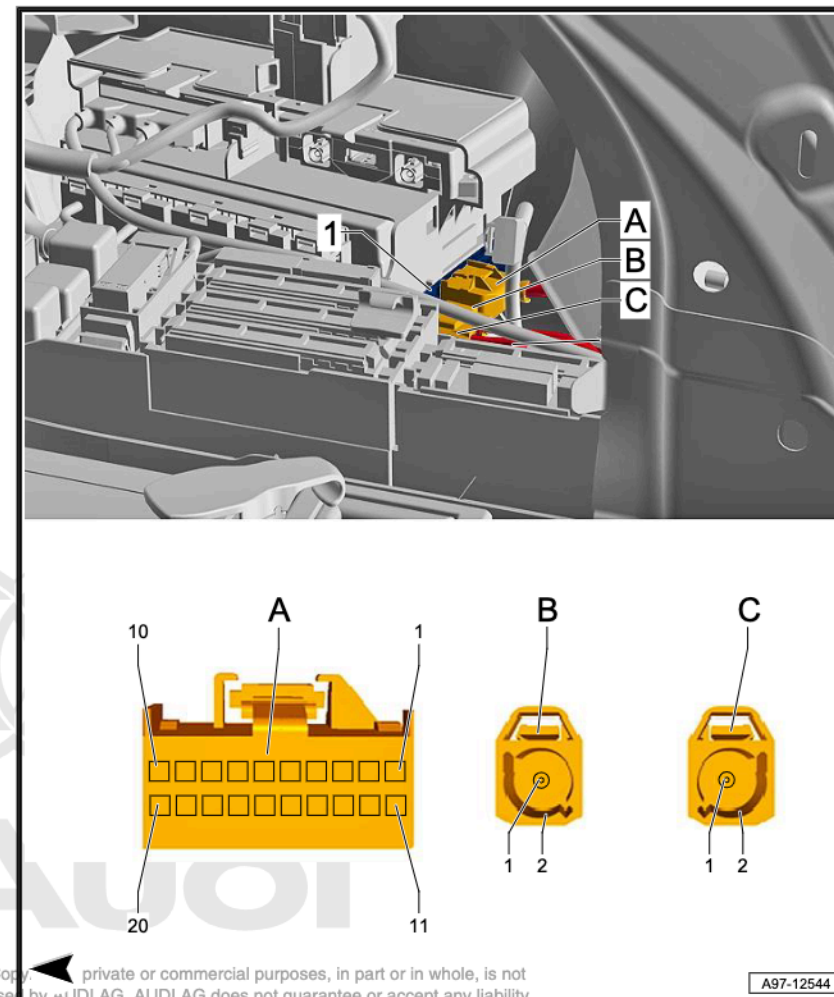
In right luggage compartment, behind side panel trim -1-.

1 - Rear View Camera System Control Module -J772-

A - 20-Pin Connector -T20I- , red

B - 2-Pin Connector -T2df- , green, Control Module for Information Electronics 1 -J794-

C - 2-Pin Connector -T2dg- , gray, Rear View Camera -R189-



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#### Pin Arrangements Rear View Camera System Control Module -J772-

-T20I- (A)	Designation	-T20I- (A)	Designation
1		11	CAN-Bus Instrument Cluster Low, to Wiring junction for instrument cluster CAN Bus, Low -TV40-
2		12	CAN-Bus Instrument Cluster High, to Wiring junction for instrument cluster CAN-Bus, High -TV36-
3		13	



-T20I- (A)	Designation		-T20I- (A)	Designation
4			14	
5			15	
6			16	
7			17	
8			18	
9	Rear View Camera -R189-		19	Rear View Camera -R189-
10	Terminal 30, from Fuse Carrier 3 -ST3- in Fuse Panel F -SF-		20	Terminal 31, to 51 Ground Connection (in right luggage compartment)

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### 1.37.3 Rear View Camera System Control Module -J772- , from model year 2016



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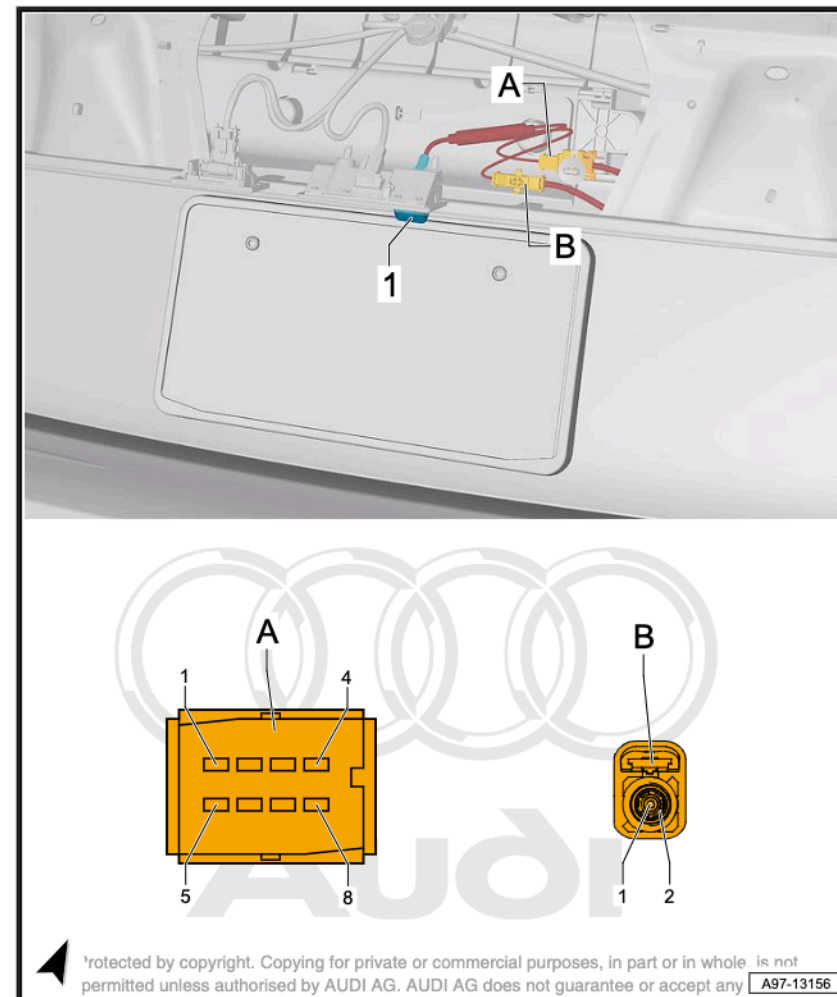
# erWin

In rear lid button handle.

1 - Rear View Camera System Control Module -J772-

A - 8-Pin Connector -T8bg- , black

B - 2-Pin Connector -T2pb- , blue, Control Module for Information Electronics 1 -J794-



#### Pin Arrangements Rear View Camera System Control Module -J772-

-T8bg- (A)	Designation	-T8bg- (A)	Designation
1	Terminal 15, from Fuse Carrier 1 -ST1- in Fuse Panel B -SB-	5	Terminal 31, to 51 Ground Connection (in right luggage compartment)
2		6	
3		7	
4	Extended System CAN-Bus High, to B108 CAN-Bus Extended High Connection 1 (in main wiring harness)	8	Extended System CAN-Bus Low, to B109 CAN-Bus Extended Low Connection 1 (in main wiring harness)

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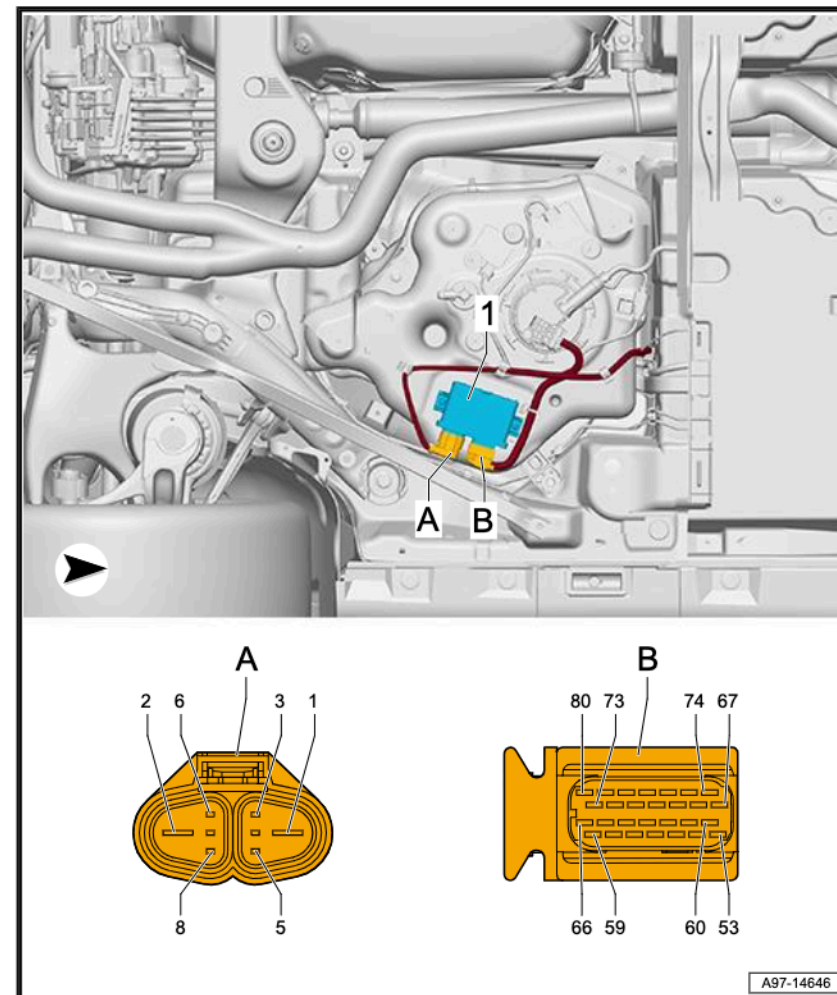
### 1.38 Reducing Agent Metering System Control Module -J880-

On reducing agent tank on left underbody (below).

1 - Reducing Agent Metering System Control Module -J880-

A - 8-Pin Connector -T8an-

B - 28-Pin Connector -T28a-



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## Pin Arrangements Reducing Agent Metering System Control Module -J880-

-T8an- (A)	Designation	-T8an- (A)	Designation
1	Terminal 31, to (34) Ground Connection (below front passenger's seat)	5	CAN-Bus powertrain, Low to (B390) Powertrain CAN-Bus Low connection 1 (in main wiring harness)
2	Terminal 30, from Fuse Carrier 5 -ST5- in Fuse Panel F -SF- <sup>1)</sup> Fuse Carrier 2 -ST2- in Fuse Panel F -SF- <sup>2)</sup>	6	Terminal 30, from Fuse Carrier 3 -ST3- in Fuse Panel F -SF- <sup>1)</sup> Fuse Carrier 2 -ST2- in Fuse Panel F -SF- <sup>2)</sup>
3	CAN-Bus powertrain, High to (B383) Powertrain CAN-Bus High connection 1 (in main wiring harness)	7	Reducing Agent Metering System Relay -J963-
4		8	Terminal 87, from Fuse Carrier 3 -ST3- in Fuse Panel B -SB-

◆ <sup>1)</sup> For models through model year 2014

◆ <sup>2)</sup> For models from model year 2015

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-T28a- (B)	Designation	-T28a- (B)	Designation
53	Reducing Agent Line Heater (Heating Circuit 2) -Z104-	67	Reducing Agent Temperature Sensor -G685- in Reducing Agent Metering System Delivery Unit -GX19-
54		68	
55	Reducing Agent Tank Sensor -G684- in Reducing Agent Metering System Delivery Unit -GX19-	69	Reducing Agent Pump -V437- in Reducing Agent Metering System Delivery Unit -GX19-
56		70	Reducing Agent Pump -V437- in Reducing Agent Metering System Delivery Unit -GX19-
57		71	Reducing Agent Pump -V437- in Reducing Agent Metering System Delivery Unit -GX19-
58		72	Reducing Agent Pump -V437- in Reducing Agent Metering System Delivery Unit -GX19-
59		73	Reducing Agent Metering System Pressure Sensor -G686- in Reducing Agent Metering System Delivery Unit -GX19-
60	Reducing Agent Temperature Sensor -G685- in Reducing Agent Metering System Delivery Unit -GX19-	74	Heater for reducing-agent tank (heater circuit 1) -Z102- in Reducing Agent Metering System Delivery Unit -GX19-
61	Reducing Agent Tank Sensor -G684- in Reducing Agent Metering System Delivery Unit -GX19-	75	Reducing Agent Tank Sensor -G684- in Reducing Agent Metering System Delivery Unit -GX19-
62		76	Reducing Agent Line Heater (Heating Circuit 2) -Z104-
63		77	
64	Heater for reducing-agent tank (heater circuit 1) -Z102- in Reducing Agent Metering System Delivery Unit -GX19-	78	
65		79	

-T28a- (B)	Designation	-T28a- (B)	Designation
66	Reducing Agent Metering System Pressure Sensor -G686- in Reducing Agent Metering System Delivery Unit -GX19-	80	Reducing Agent Metering System Pressure Sensor -G686- in Reducing Agent Metering System Delivery Unit -GX19-

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### 1.39 Peripheral Camera Control Module -J928-

Below front passenger's seat -1-.

1 - Peripheral Camera Control Module -J928-

A - 5-Pin Connector -T5ay- , blue, Rear Peripheral Camera -R246-

B - 5-Pin Connector -T5ax- , white, Front Peripheral Camera -R243-

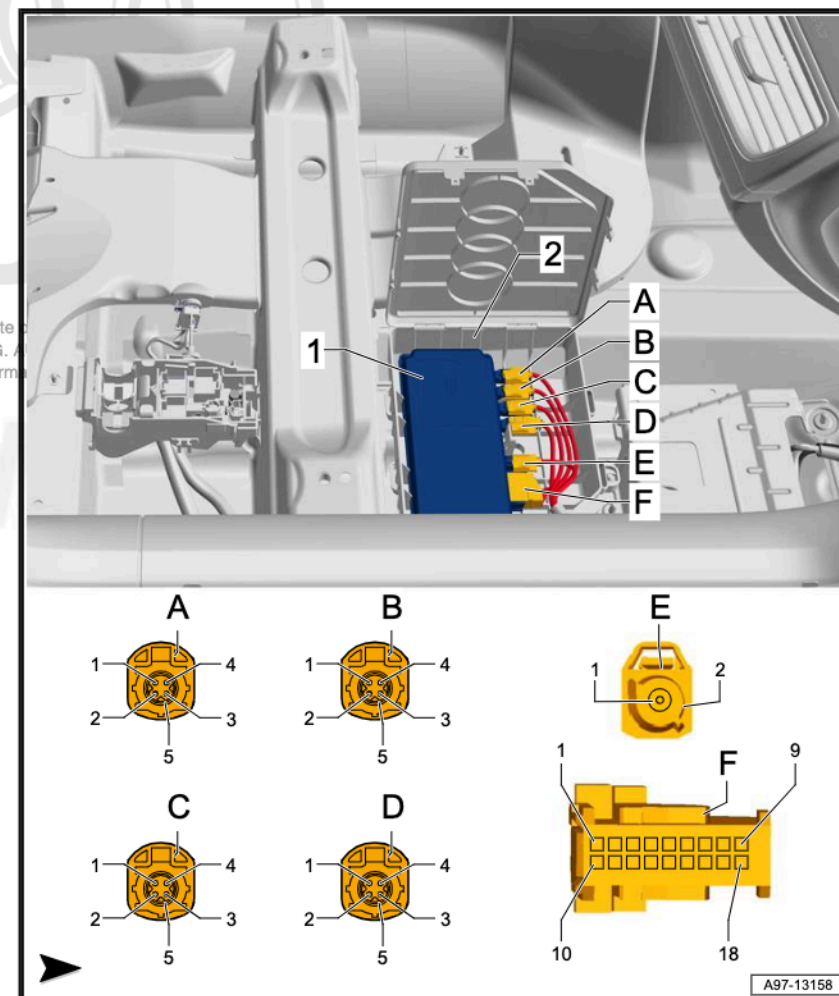
C - 5-Pin Connector -T5aw- , black, right Peripheral Camera -R245-

D - 5-Pin Connector -T5av- , green, left Peripheral Camera -R244-


E - 2-Pin Connector -T2lt- , green, Control Module for Information Electronics 1 -J794-

F - 18-Pin Connector -T18f- , black

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**Pin Arrangements Peripheral Camera Control Module -J928-**

-T18f- (A)	Designation		-T18f- (A)	Designation
1	Terminal 30, from Fuse Carrier 3 -ST3- in Fuse Panel F -SF-		10	CAN-Bus Instrument Cluster Low, to Wiring junction for instrument cluster CAN Bus, Low -TV40-
2	CAN-Bus Instrument Cluster High, to Wiring junction for instrument cluster CAN-Bus, High -TV36-		11	
3			12	Terminal 31, to  Ground Connection 2 (on Center Tunnel)
4			13	
5			14	
6			15	
7			16	
8			17	
9			18	

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## 1.40 Amplifier for Telephone -R86-

⇒ ["1.40.1 Amplifier for Telephone R86 , through model year 2014", page 64](#)

⇒ ["1.40.2 Amplifier for Telephone R86 , from model year 2015", page 66](#)

### 1.40.1 Amplifier for Telephone -R86- , through model year 2014

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In right luggage compartment, behind side panel trim



Note

From model year 2013 the connectors -B- and -C- on Cellular telephone amplifier -R86- changed.

1 - Amplifier for Telephone -R86-

A - 2-Pin Connector -T2dc- , purple

❑ from Telephone Antenna -R65-

B - 2-Pin Connector -T2dd- , black

❑ Through model year 2012

❑ to Telephone Baseplate -R126-

B - 4-Pin Connector -T4az- , black

❑ from model year 2013

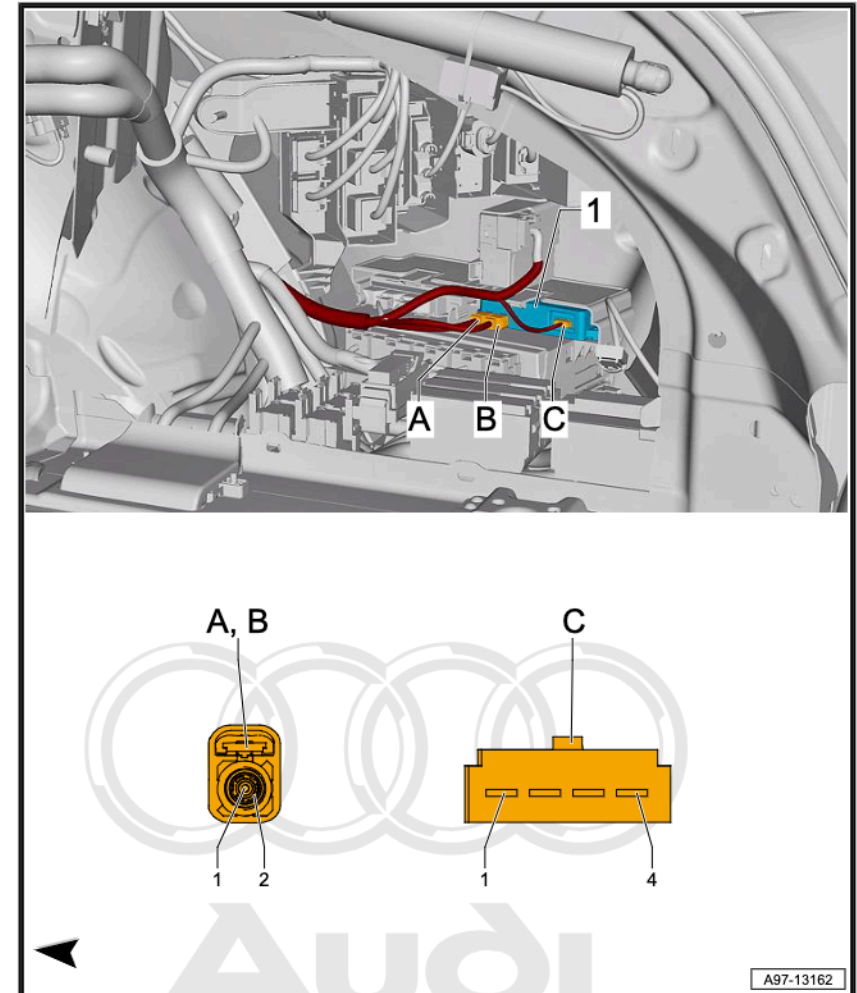
C - 4-Pin Connector -T4az- , black

❑ Through model year 2012

C - 2-Pin Connector -T2dd- , black

❑ from model year 2013

❑ to Telephone Baseplate -R126-



#### Pin Arrangements Amplifier for Telephone -R86-

-T4az- (B/C)	Designation
1	Terminal 30, from Fuse Carrier 2 -ST2- in Fuse Panel F -SF-
2	Terminal 31, to 51 Ground Connection (in right luggage compartment)
3	Control Module for Information Electronics 1 -J794- / Telephone Baseplate -R126-
4	

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## 1.40.2 Amplifier for Telephone -R86- , from model year 2015

In left luggage compartment, behind side panel trim

1 - Amplifier for Telephone -R86-

A - 2-Pin Connector -T2dc- , purple

- ☐ Through model year 2017
- ☐ from Telephone Antenna -R65-

A - 2-Pin Connector -T2dc- , purple/beige/curry yellow

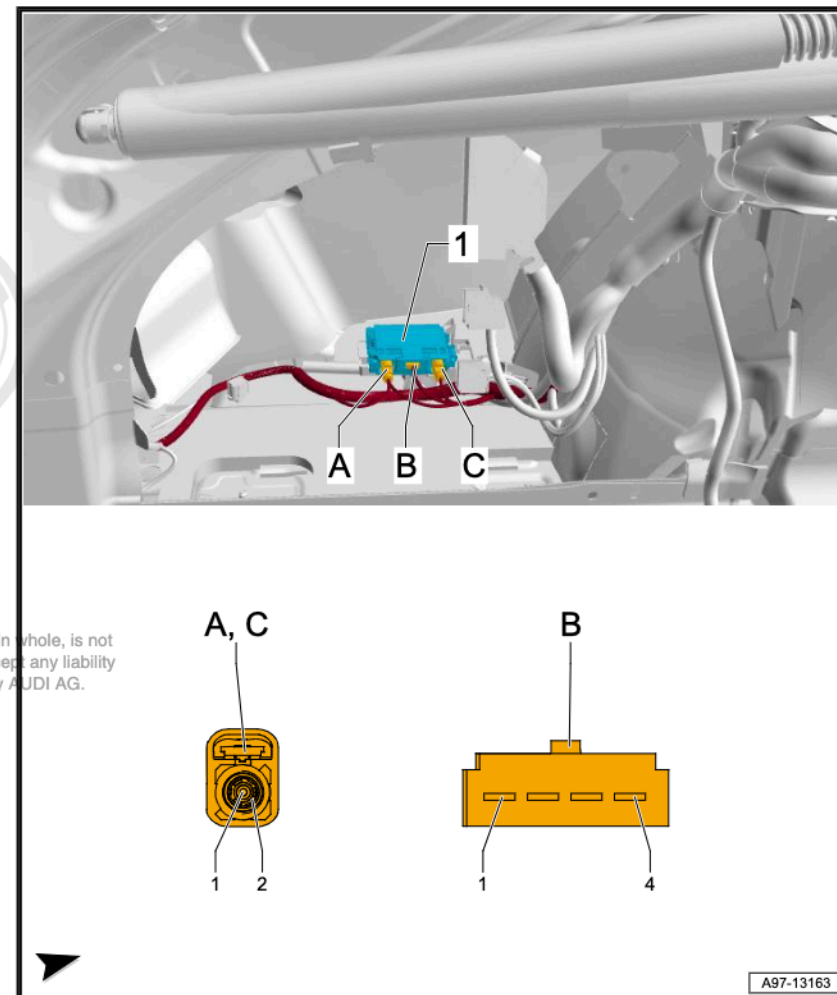
- ☐ from model year 2018
- ☐ Connector colour purple: only models for area ECE (GB1)
- ☐ Connector colour beige: only models for area NAR (GB2)
- ☐ Connector colour curry yellow: only models for area China, Asia (GB3)
- ☐ from Telephone Antenna -R65-

B - 4-Pin Connector -T4az- , black

C - 2-Pin Connector -T2dd- , black

- ☐ to Telephone Baseplate -R126-

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**Pin Arrangements Amplifier for Telephone -R86-**

-T4az- (B)	Designation
1	Terminal 30, from Fuse Carrier 2 -ST2- in Fuse Panel F -SF-
2	Terminal 31, to 50 Ground Connection (in left luggage compartment)
3	Control Module for Information Electronics 1 -J794- / Telephone Baseplate -R126-
4	

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**1.41 Telephone/Telematics Control Module -J526-**

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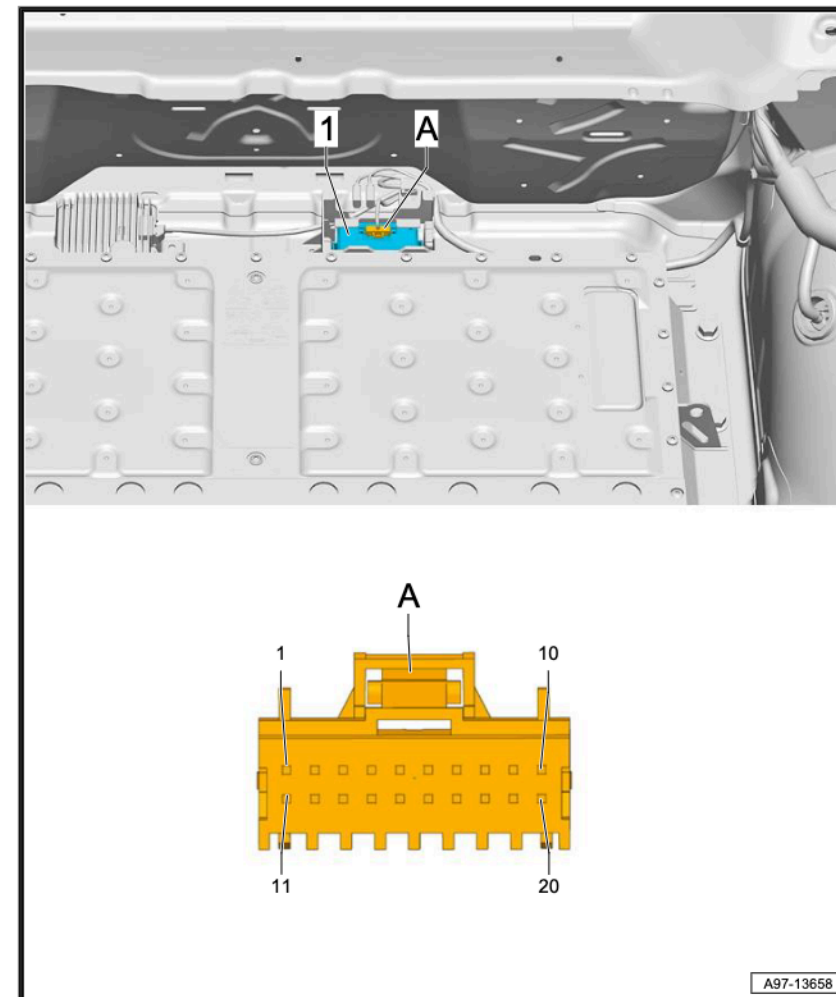
In left center luggage compartment before Hybrid Battery Unit -AX1- .

1 - Telephone/Telematics Control Module -J526-

A - 20-Pin Connector -T20n- , brown







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#### Pin Arrangements Telephone/Telematics Control Module -J526-

-T20n- (A)	Designation	-T20n- (A)	Designation
1	Terminal 30, from Fuse Carrier 1 -ST1- in Fuse Panel F -SF-	11	Terminal 31, to 51 Ground Connection (in right luggage compartment)
2		12	
3		13	
4		14	
5	CAN-Bus Low, to Telematics Interface Control Module -J1221-	15	CAN-Bus High, to Telematics Interface Control Module -J1221-

-T20n- (A)	Designation		-T20n- (A)	Designation	
6			16		
7			17		
8			18		
9	CAN-Bus Hybrid Low, to (in main wiring harness)	 Hybrid CAN bus low connection 1	19	CAN-Bus Hybrid High, to (in main wiring harness)	 Hybrid CAN bus high connection 1 (in
10	CAN-Bus Hybrid Low, to (in main wiring harness)	 Hybrid CAN bus low connection 2	20	CAN-Bus Hybrid High, to (in main wiring harness)	 Hybrid CAN bus high connection 2 (in

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## 1.42 Telematics Interface Control Module -J1221-



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In left center luggage compartment before Hybrid Battery Unit -AX1- .

1 - Telematics Interface Control Module -J1221-

A - 2-Pin Connector -T2qn- , purple

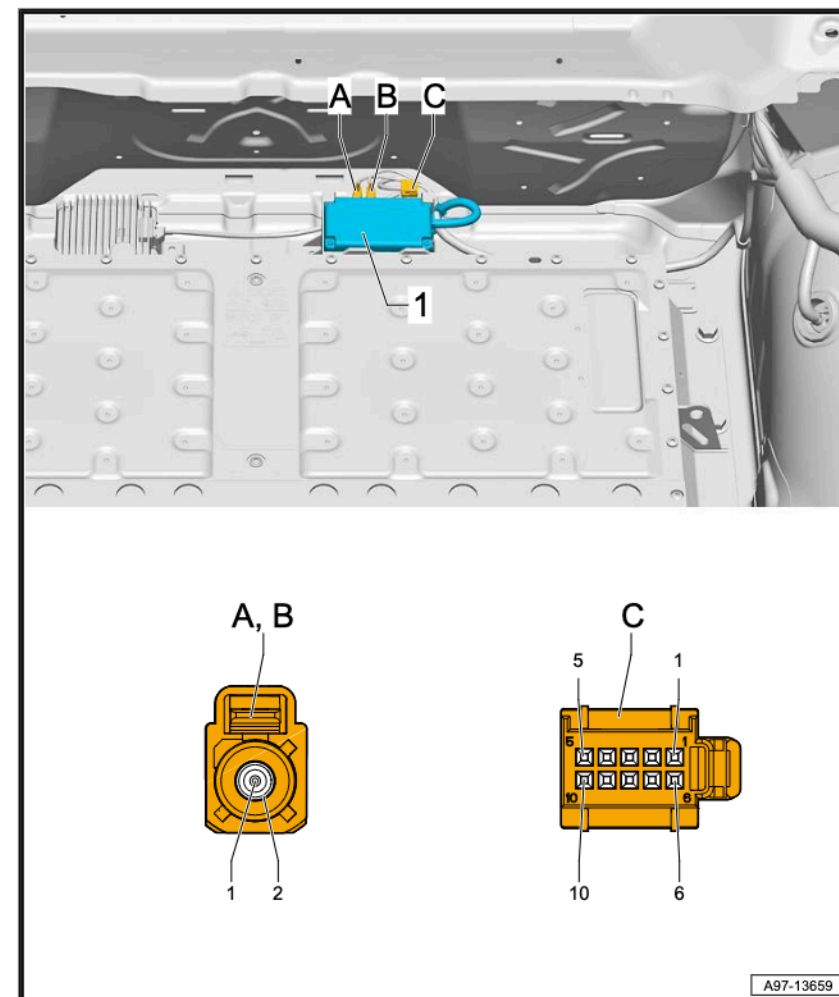
□ from Telephone Antenna -R65- in Radio Data Transmission Antenna -R180-

B - 2-Pin Connector -T2qp- , blue

□ from Navigation System Antenna -R50- in Radio Data Transmission Antenna -R180-

C - 10-Pin Connector -T10qp- , black

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Pin Arrangements Telematics Interface Control Module -J1221-

-T10qp-(C)	Designation		-T10qp-(C)	Designation
1	Terminal 30, from Fuse Carrier 1 -ST1- in Fuse Panel F -SF-		6	Terminal 31, to 51 Ground Connection (in right luggage compartment)
2			7	
3			8	
4			9	



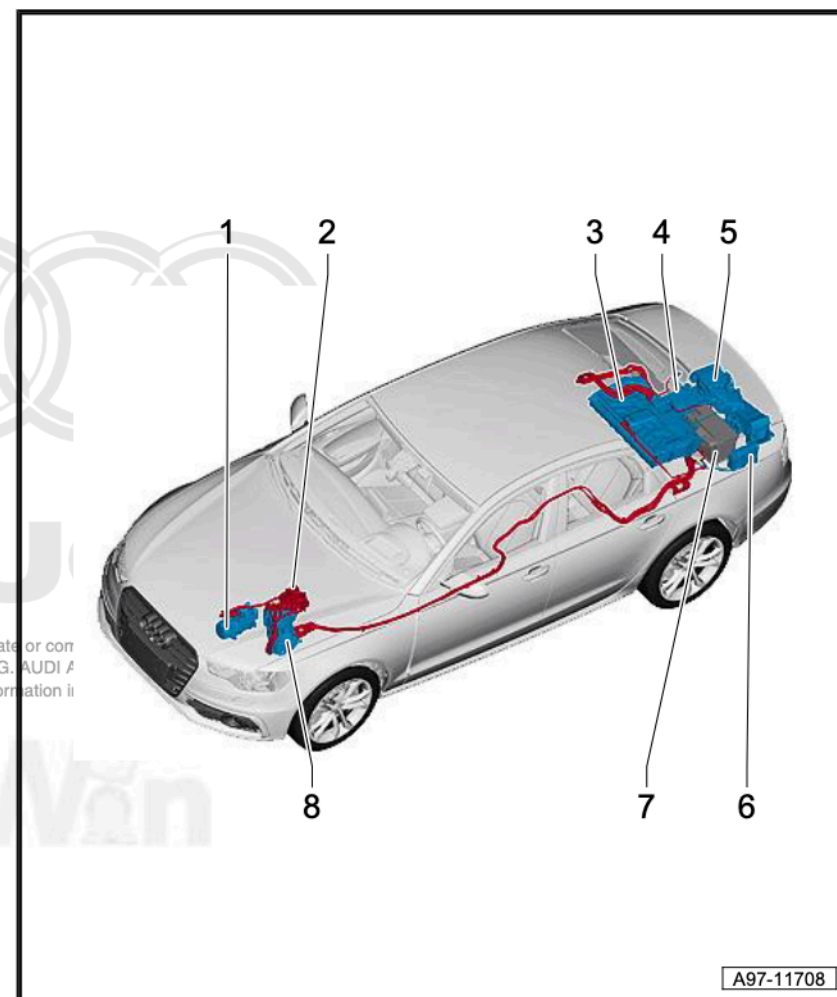
-T10qp-(C)	Designation	-T10qp-(C)	Designation
5	CAN-Bus Low, to Telephone/Telematics Control Module -J526-	10	CAN-Bus High, to Telephone/Telematics Control Module -J526-

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## 1.43 Overview of Control Modules for High-Voltage Models

- 1 -  
Electrical A/C Compressor -V470-  
☐ Components: -J842- , -P3-  
☐ and Connectors [⇒ page 72](#)
- 2 -  
Electric Drive Power and Control Electronics -JX1-  
☐ Components: -J841- , -A37- , -A19-  
☐ and Connectors [⇒ page 73](#)
- 3 -  
Hybrid Battery Unit -AX1-  
☐ Components: -J840- , -A38- , -TW- , -S350- , -TV44- , -P2- , -P1-  
☐ and Connectors [⇒ page 75](#)
- 4 -  
Auxiliary Battery -A1- High-Voltage System  
☐ Components: -J934-  
☐ and Connectors [⇒ page 78](#)
- 5 -  
High-Voltage System Battery Cooling Module  
☐ Components: -G756- , -G757- , -N516- , -V457- , -V479- , -V480-  
☐ and Connectors [⇒ page 76](#)
- 6 -  
Wire Junction -TV1- High-Voltage System  
☐ Components: -J580- , -S207- , -S208- , -S209- , -J7-  
☐ and Connectors [⇒ page 77](#)
- 7 - Battery -A-
- 8 -  
Electro-Drive Drive Motor -V141-  
☐ Components: -VX54- , -G712- , -P4- , -P5- , -P6-

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□ and Connectors ⇒ [page 74](#)

## 1.44 Electrical A/C Compressor -V470- Models with High-Voltage System

on left engine block -2-.

1 - 8-Pin Connector -T8ba- , black

2 - Electrical A/C Compressor -V470-

Internal Components: A/C Compressor Control Module -J842-

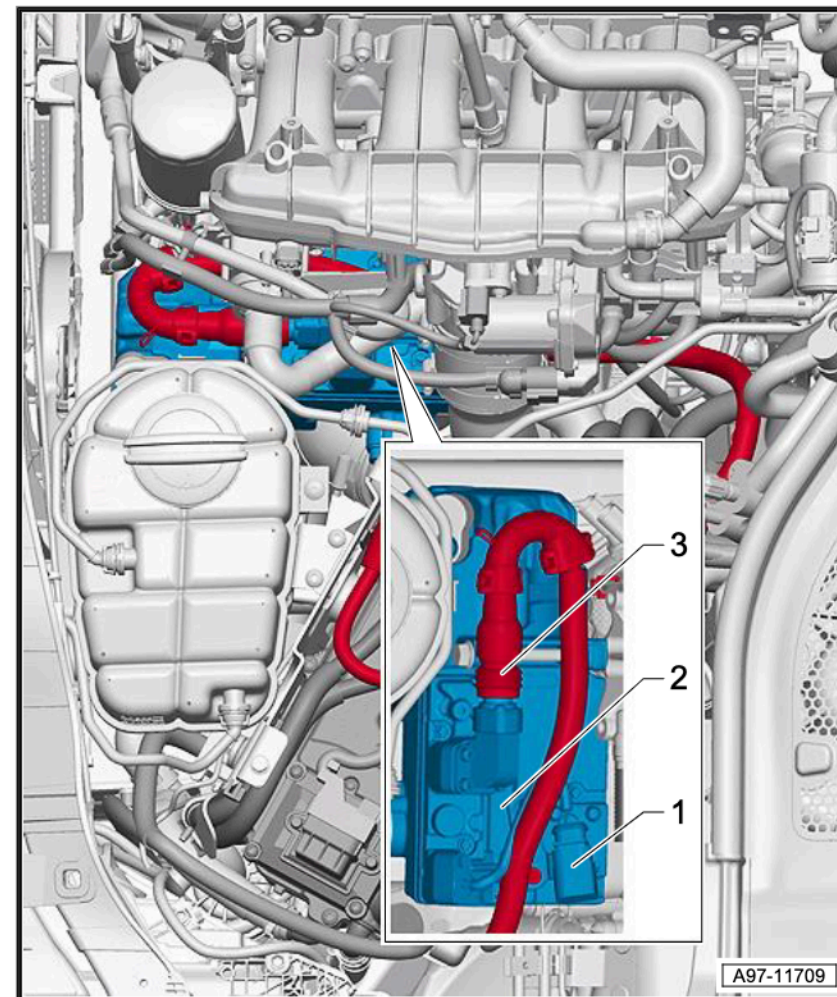
3 - 4-Pin Connector -T4fq- , Electrical A/C Compressor High Voltage Cable -P3-



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## 1.45 Electric Drive Power and Control Electronics -JX1- , models with High-Voltage System

In front left in engine compartment -A-.

A - Electric Drive Power and Control Electronics -JX1-

Internal Components: Electrical Drive Control Module -J841- , Drive Motor Inverter -A37- , Voltage Converter -A19-

A1 - 1-Pin Connector -T1p- , Hybrid Battery High Voltage Cable, Positive Terminal -P1-

A2 - 1-Pin Connector -T1o- , Hybrid Battery High Voltage Cable, Negative Terminal -P2-

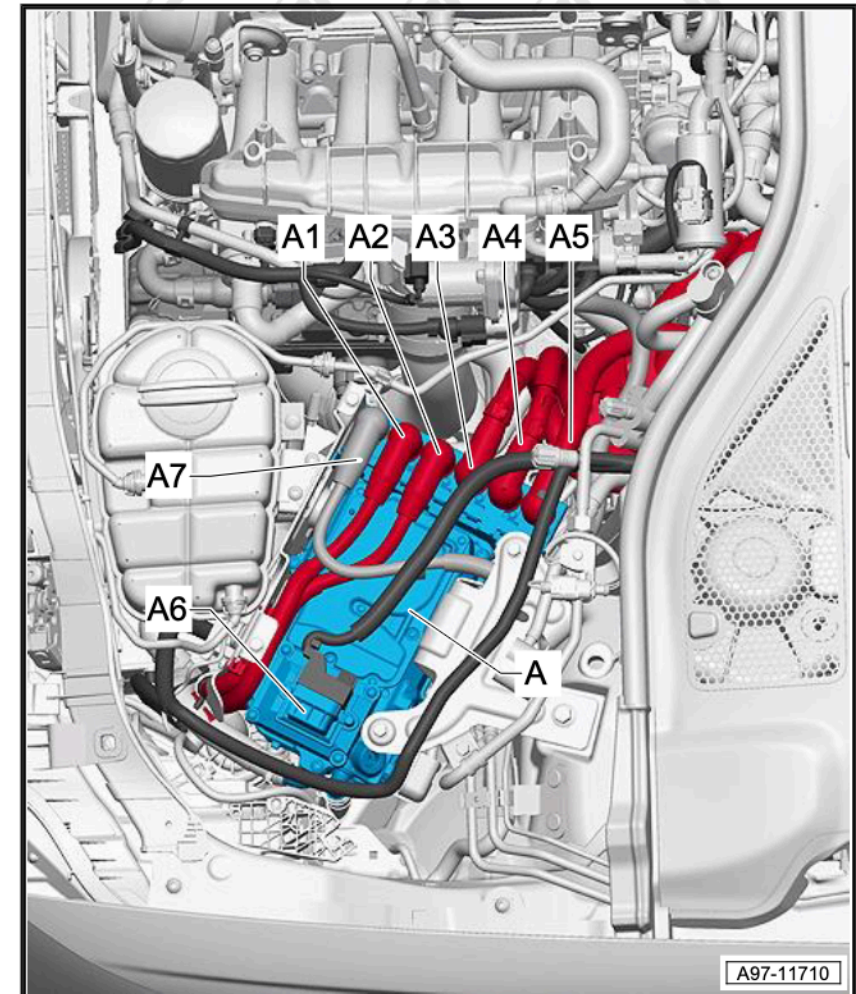
A3 - 1-Pin Connector -T1h- , Drive Motor High Voltage Cable 3 -P6-

A4 - 1-Pin Connector -T1g- , Drive Motor High Voltage Cable 2 -P5-

A5 - 1-Pin Connector -T1f- , Drive Motor High Voltage Cable 1 -P4-

A6 - 28-Pin Connector -T28b- , black

A7 - 4-Pin Connector -T4fp- , Electrical A/C Compressor High Voltage Cable -P3-





Back to overview ⇒ [page 71](#) .

## 1.46 Electro-Drive Drive Motor -V141- , models with High-Voltage System

On transmission housing -A-.

A - Electro-Drive Drive Motor -V141-

Internal Components: Three-Phrase Current Drive -VX54- , Drive motor temperature sensor -G712-

A1 - 10-Pin Connector -T10ao- , black

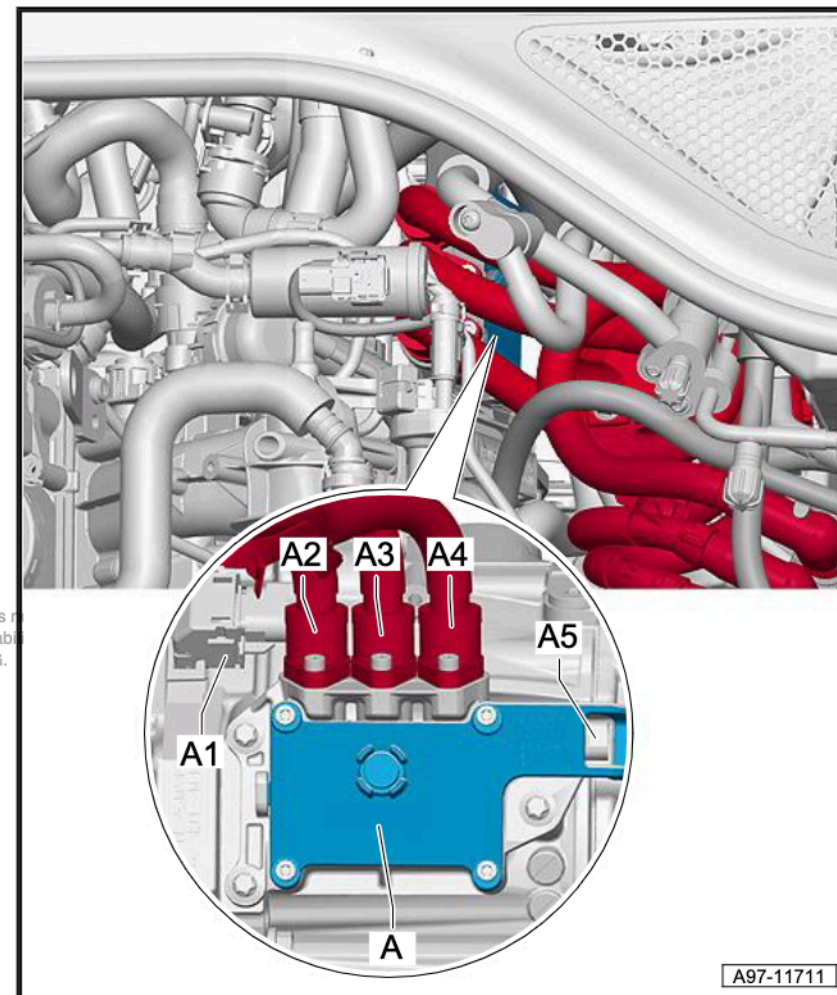
A2 - 1-Pin Connector -T1i- , Drive Motor High Voltage Cable 1 -P4-

A3 - 1-Pin Connector -T1k- , Drive Motor High Voltage Cable 2 -P5-

A4 - 1-Pin Connector -T1l- , Drive Motor High Voltage Cable 3 -P6-

A5 - 2-Pin Connector -T2ms- , black

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A97-11711

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## 1.47 Hybrid Battery Unit -AX1- , models with High-Voltage System

Under cover of luggage compartment -A-.

A - Hybrid Battery Unit -AX1-

Internal Components: Battery Regulation Control Module -J840- , Hybrid Battery -A38-

A1 - 8-Pin Connector -T8az- , black

A2 - 14-Pin Connector -T14l- , black

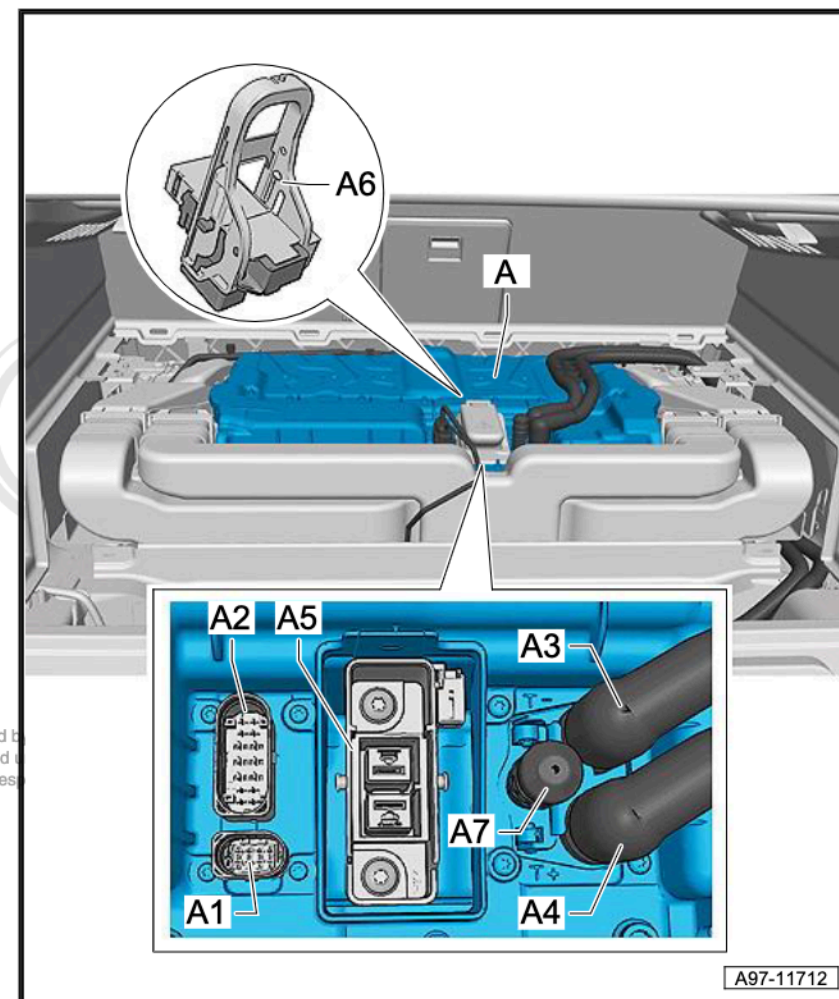
A3 - 1-Pin Connector -T1n- , Hybrid Battery High Voltage Cable, Negative Terminal -P2-

A4 - 1-Pin Connector -T1m- , Hybrid Battery High Voltage Cable, Positive Terminal -P1-

A5 - Connection for High Voltage System Maintenance Connector -TW-

A6 - High Voltage System Maintenance Connector -TW- with High Voltage System Fuse -S350-

A7 - Safety Connector 1 -TV44-



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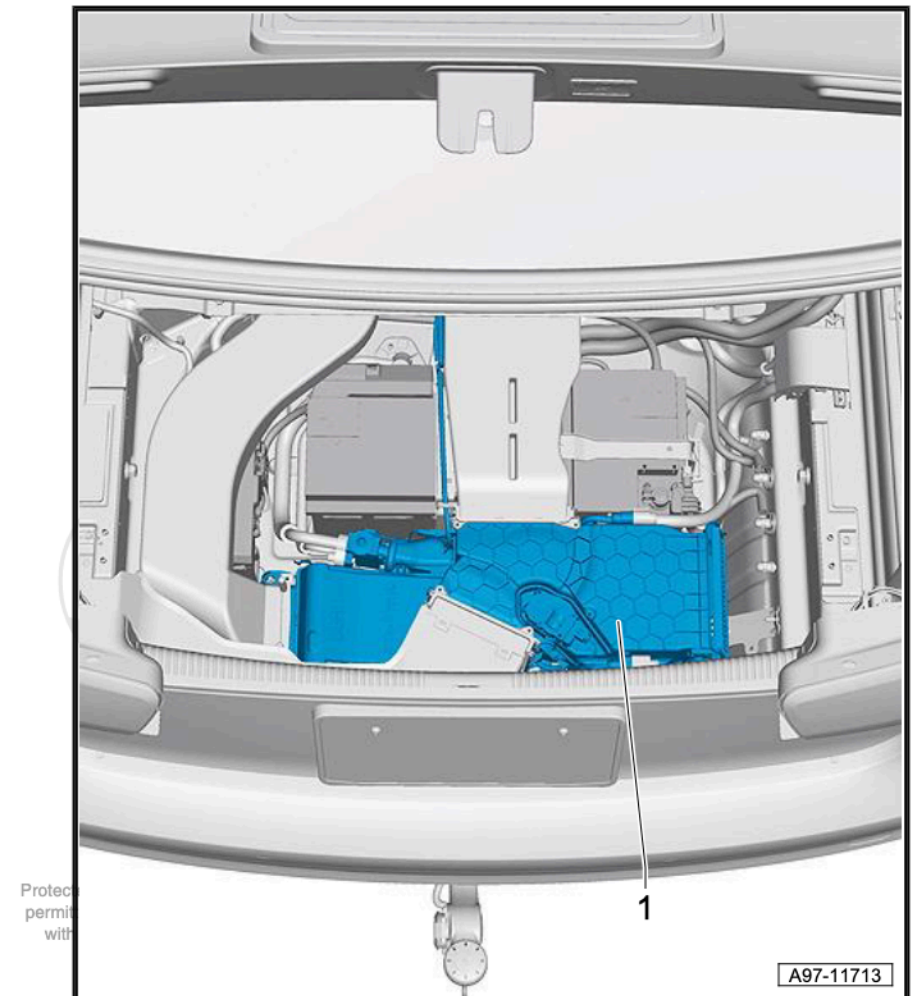
## 1.48 , Battery Cooling Module, Models with High-Voltage System

Under cover of luggage compartment -1-.

### 1 - High-Voltage System Battery Cooling Module

Components:

- ◆ Temperature Sensor Before Hybrid Battery Evaporator -G756-
- ◆ Temperature Sensor After Hybrid Battery Evaporator -G757-
- ◆ Hybrid Battery Refrigerant Shut-Off Valve 1 -N516-
- ◆ Battery Fan 1 -V457-
- ◆ Hybrid Battery Recirculation Door Positioning Motor 1 -V479-
- ◆ Hybrid Battery Recirculation Door Positioning Motor 2 -V480-



Protect  
permit  
with



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## 1.49 Wire Junction -TV1- , models with High-Voltage System

Under cover of left luggage compartment, beside Battery -A- .

A - Wiring Connection to Battery -A-

B - Starter Battery Switch-Over Relay -J580-

B1 - 2-Pin Connector -T2mv- , black

F1 - Wiring Connection to Terminal 30 Wire Junction -TV2-

D - Fuse 4 - terminal 30 -S207- , 150 A

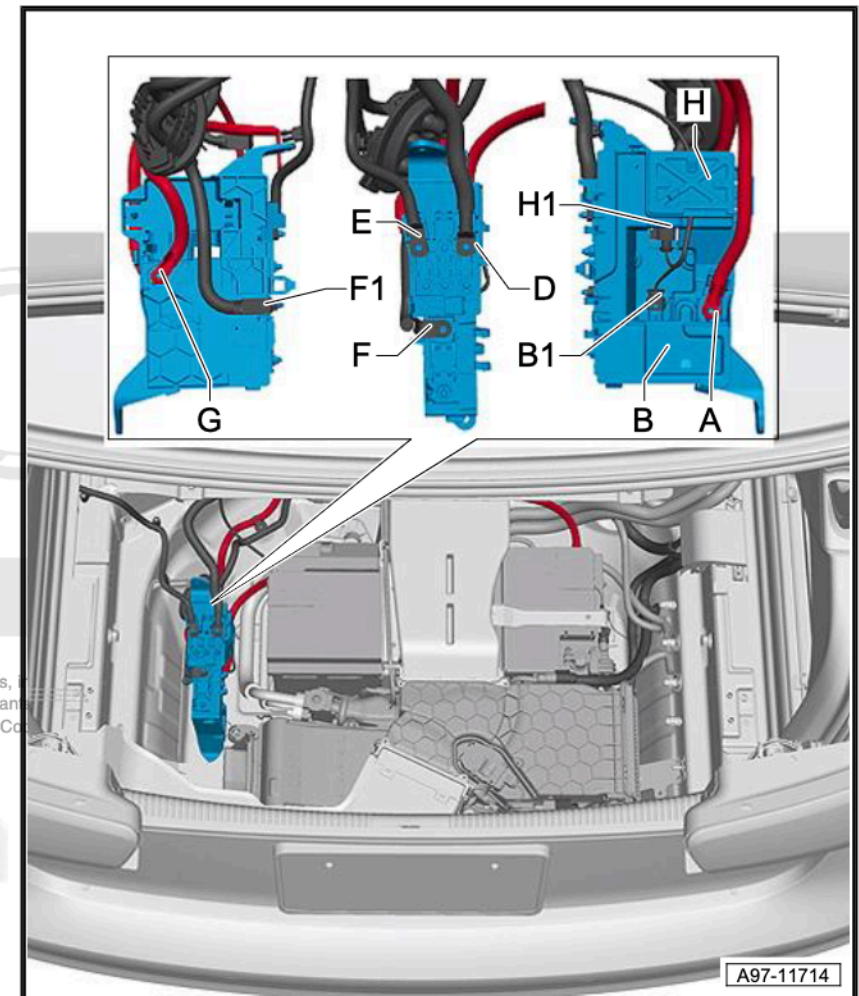
E - Fuse 5 - terminal 30 -S208- , 150 A

F - Fuse 6 - terminal 30 -S209- , 200 A

G - Wiring Connection to Auxiliary Battery -A1-

H - Battery Separation Relay -J7-

H1 - 2-Pin Connector -T2mw- , black



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## 1.50 Auxiliary Battery -A1- , models with High-Voltage System

Under cover of right luggage compartment, beside Battery -A- -1-.

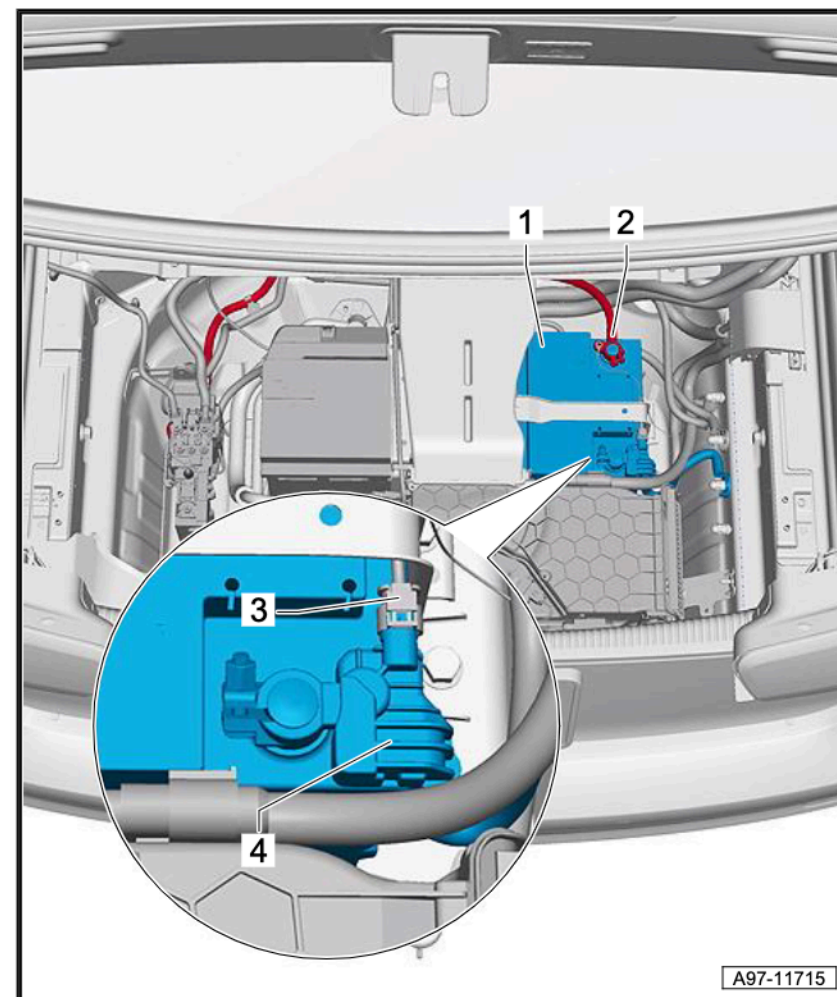
- 1 - Auxiliary Battery -A1-
- 2 - Battery positive
- 3 - 2-Pin Connector -T2mu- , yellow
- 4 - Battery Monitoring Control Module 2 -J934-



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## 1.51 Additional control modules and components in rear part, for models with high-voltage system, overview, from Week 47/2016

1 -

Hybrid Battery Unit -AX1-

- ❑ Components: -J840- , -SX6-
- ❑ and Connectors ⇒ [page 80](#)

2 - Battery Regulation Control Module -J840-

- ❑ and connectors, from Week 47/2016 ⇒ [page 82](#)
- ❑ , from Week 45/2011 ⇒ [page 75](#)

3 -

High voltage battery charger 1 -AX4-

- ❑ Components: -J1050-
- ❑ and Connectors ⇒ [page 86](#)

4 - Wire Junction -TV1-

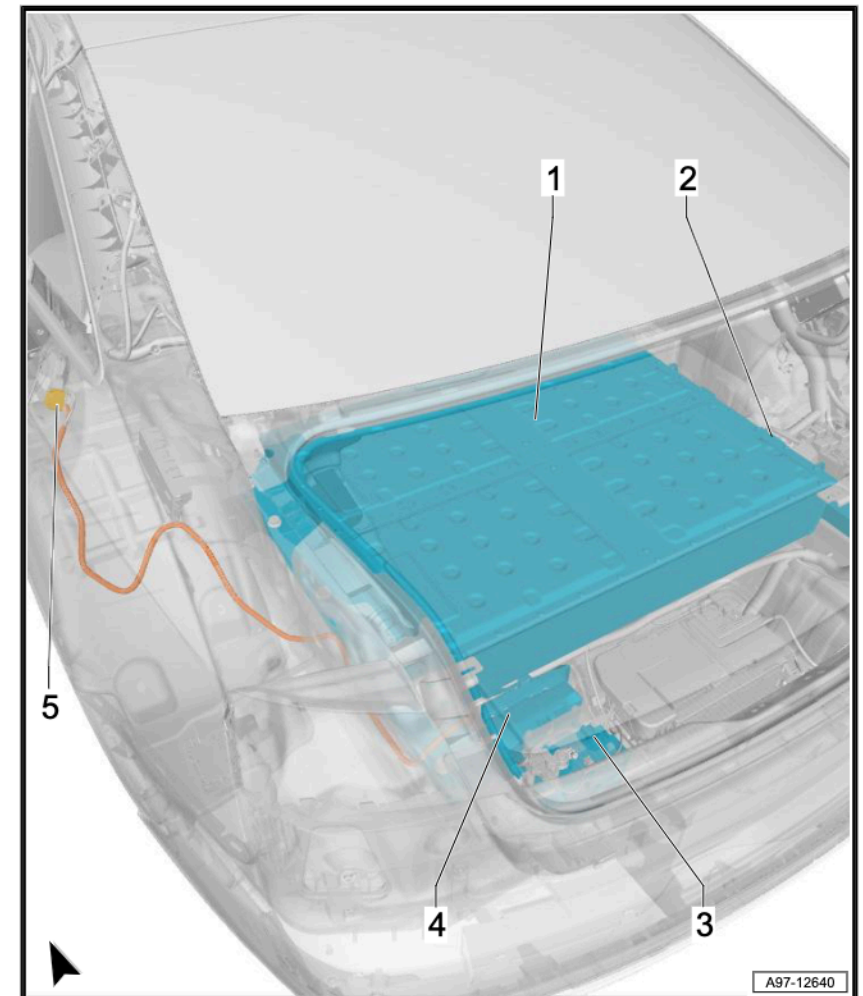
5 -

High voltage battery charging socket 1 -UX4-

- ❑ Components: -F498- , -G853-

- ❑ and Connectors ⇒ [page 84](#)

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## 1.52 Hybrid Battery Unit -AX1- , from Week 47/2016

In luggage compartment, center.

1 - Hybrid Battery Unit -AX1-

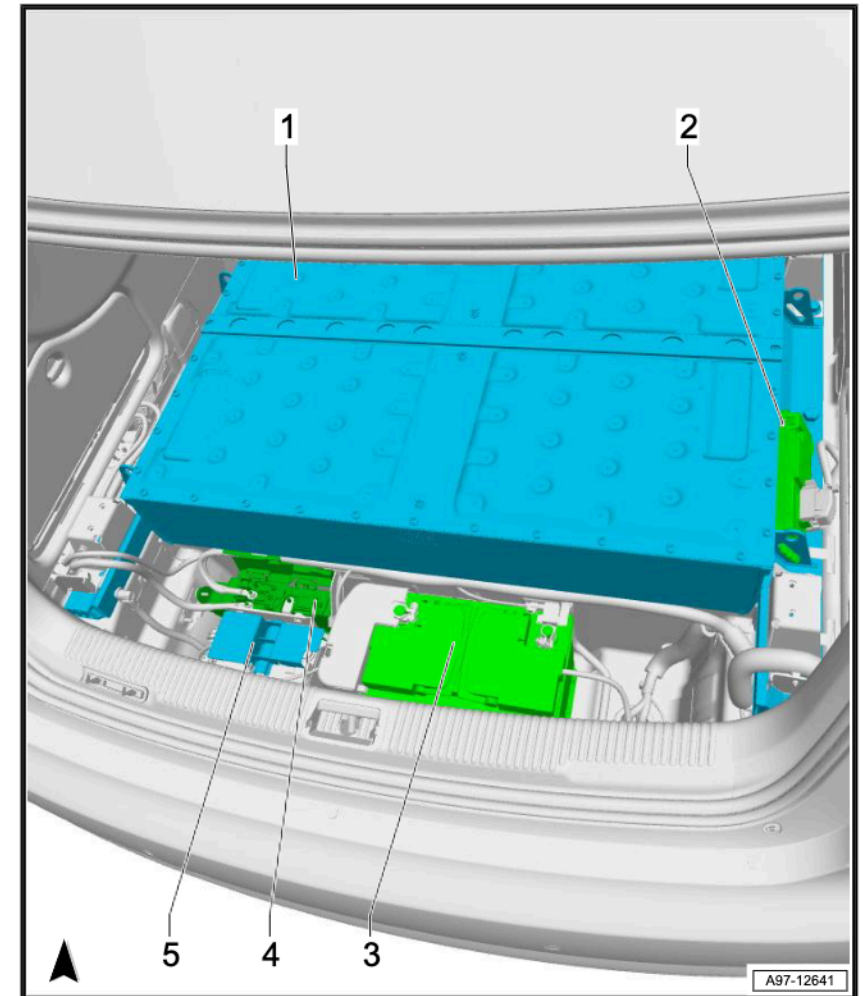
□ with Battery Regulation Control Module -J840- , High-Voltage Battery Switch Box -SX6-

2 - Battery Regulation Control Module -J840-

3 - Battery -A-

4 - Wire Junction -TV1-

5 - Auxiliary Battery -A1-



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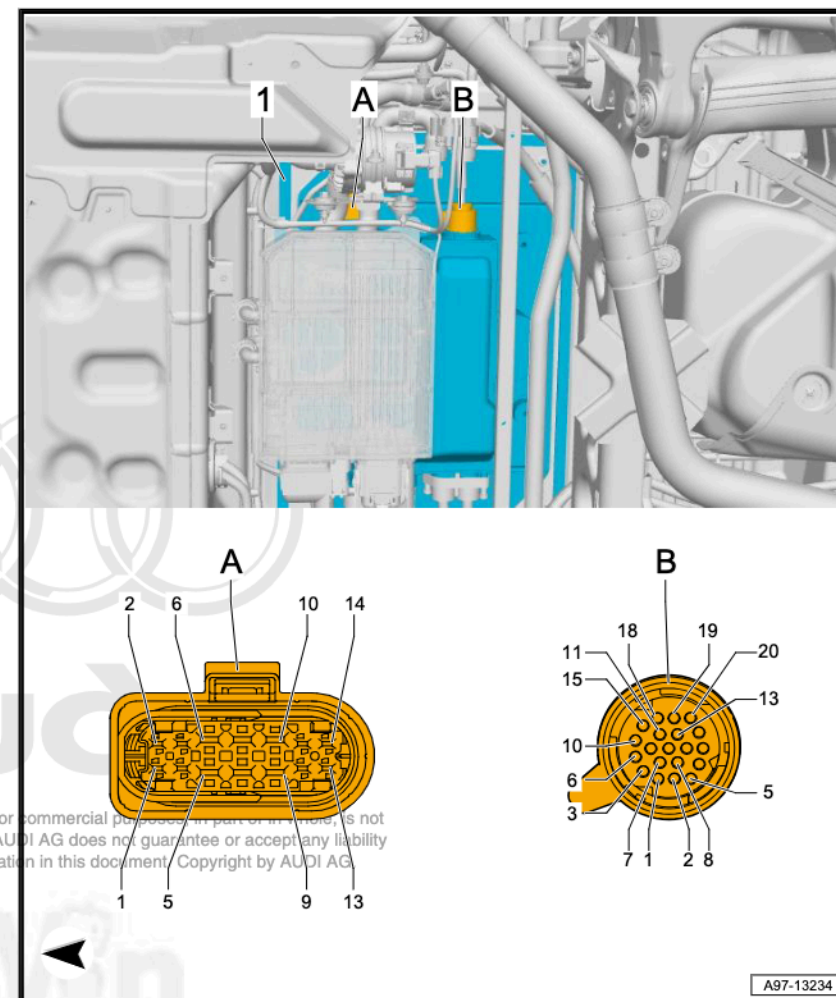
## 1.53 Connectors Hybrid Battery Unit -AX1- , from Week 47/2016

Rear on underbody below Hybrid Battery Unit -AX1- .

1 - Hybrid Battery Unit -AX1-

A - 14-Pin Connector -T14w- , black

B - 20-Pin Connector -T20m- , black



### Pin Arrangements Hybrid Battery Unit -AX1-

-T14w- (A)	Designation	-T20m- (B)	Designation
1	Airbag Control Module -J234-	1	CAN-Bus Hybrid Low, to main wiring harness) <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">B817</span> Hybrid CAN bus low connection 2 (in



-T14w- (A)	Designation	-T20m- (B)	Designation
2	20-Pin Connector -T20m- , Connection Bridge	2	CAN-Bus Hybrid High, to (B816) Hybrid CAN bus high connection 2 (in main wiring harness)
3	Airbag Control Module -J234-	3	
4	20-Pin Connector -T20m- , Connection Bridge	4	Terminal 30, from (P8) Connection 2 (in High-Voltage Battery Wiring Harness), Fuse Carrier 3 -ST3- in Fuse Panel F -SF-
5		5	Terminal 31, to (399) Ground Connection 34 (in main wiring harness) (51) Earth point, on right in luggage compartment
6	Battery Regulation Control Module -J840-	6	
7		7	14-Pin Connector -T14w- , Connection Bridge
8		8	Terminal 30, from (P7) Connection 1 (in High-Voltage Battery Wiring Harness), High Voltage System Maintenance Connector -TW-
9	Terminal 31, to (399) Ground Connection 34 (in main wiring harness) (51) Earth point, on right in luggage compartment	9	Battery Regulation Control Module -J840- , Pilot Line
10		10	14-Pin Connector -T14w- , Connection Bridge
11	Battery Regulation Control Module -J840-	11	Battery Regulation Control Module -J840-
12	Battery Regulation Control Module -J840-	12	
13	CAN-Bus Hybrid High, to (B816) Hybrid CAN bus high connection 2 (in main wiring harness)	13	
14	CAN-Bus Hybrid Low, to (B817) Hybrid CAN bus low connection 2 (in main wiring harness)	14	High voltage heater (PTC) control module -J848- , Pilot Line
		15	
		16	
		17	
		18	
		19	
		20	

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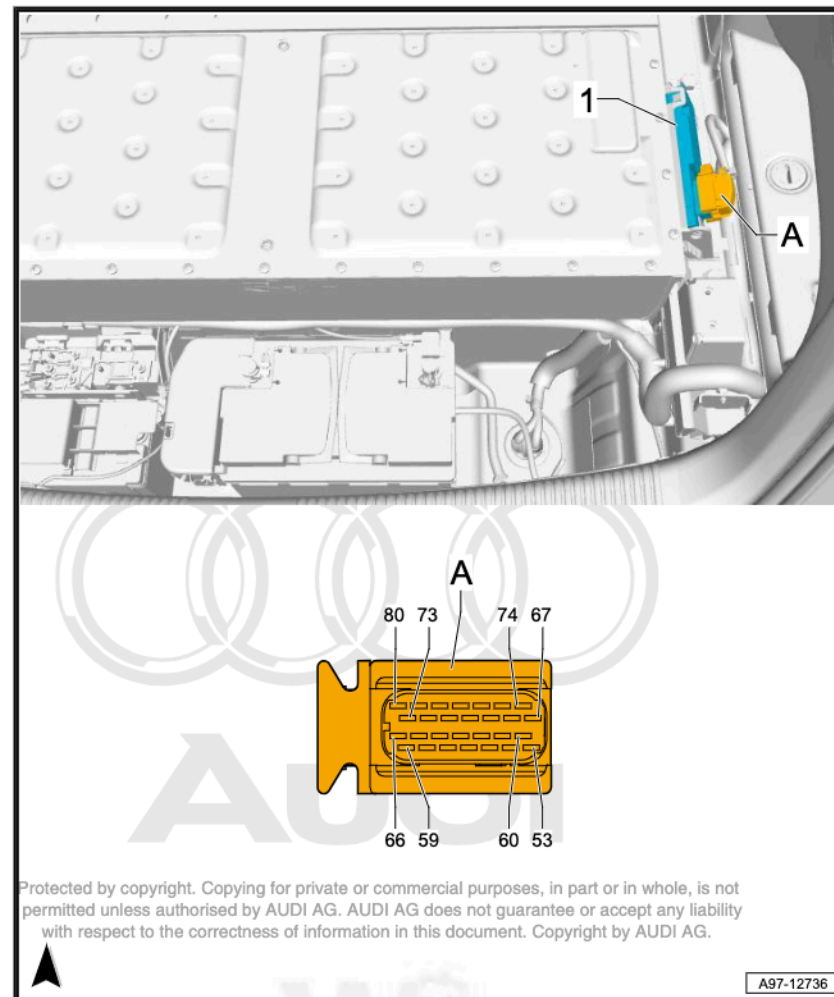
## 1.54 Battery Regulation Control Module -J840- , from Week 47/2016



In luggage compartment right, on Hybrid Battery Unit -AX1- .

1 - Battery Regulation Control Module -J840-

A - 28-Pin Connector -T28c- , black



#### Pin Arrangements Battery Regulation Control Module -J840-

-T28c-(A)	Designation	-T28c-(A)	Designation	-T28c-(A)	Designation
53	CAN-Bus Hybrid High, to (B816) Hybrid CAN bus high-connection 2 (in main wiring harness)	63	Hybrid Battery Unit -AX1-	73	High voltage battery coolant pump -V590-

-T28c-(A)	Designation	-T28c-(A)	Designation	-T28c-(A)	Designation
54	CAN-Bus Hybrid Low, to (B817) Hybrid CAN bus low connection 2 (in main wiring harness)	64		74	Hybrid Battery Unit -AX1-
55	CAN-Bus Hybrid High, to (B776) Hybrid CAN bus high-connection 1 (in main wiring harness)	65		75	Hybrid Battery Unit -AX1-
56	CAN-Bus Hybrid Low, to (B777) Hybrid CAN bus low connection 1 (in main wiring harness)	66	High Voltage System Maintenance Connector -TW- , Pilot Line	76	Hybrid Battery Unit -AX1-
57		67	High-voltage battery coolant pump relay -J1156-	77	Hybrid Battery Unit -AX1- , Pilot Line
58		68		78	High-Voltage Battery Coolant Temperature Sensor 2 -G899-
59	Terminal 31, to (399) Ground Connection 34 (in main wiring harness) Earth point, on right in luggage compartment (51)	69		79	High-Voltage Battery Coolant Temperature Sensor 2 -G899-
60	Terminal 30, from (P8) Connection 2 (in High-Voltage Battery Wiring Harness), Fuse Carrier 3 -ST3- in Fuse Panel F -SF-	70	High-Voltage Battery Coolant Temperature Sensor 1 -G898-	80	Terminal 30, from (P7) Connection 1 (in High-Voltage Battery Wiring Harness), High-Voltage System Maintenance Connector -TW-
61		71	High-Voltage Battery Coolant Temperature Sensor 1 -G898-		
62		72			

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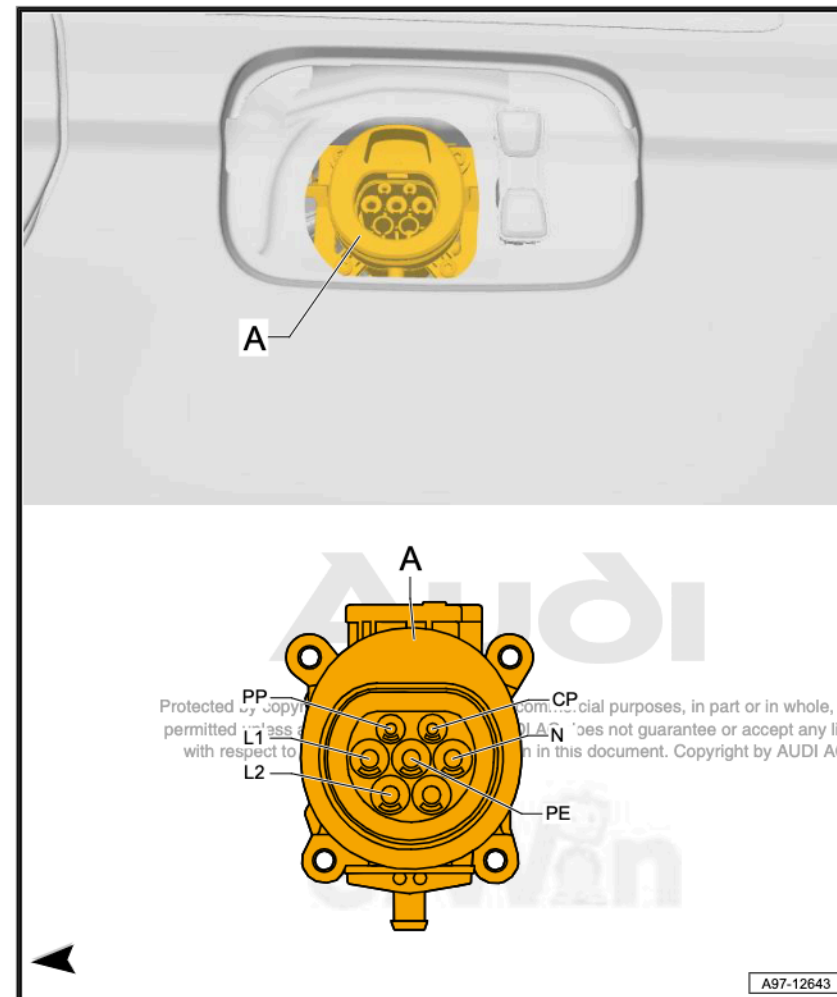
## 1.55 High voltage battery charging socket 1 -UX4- , from Week 47/2016

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In left side panel, above wheel housing.

A - High voltage battery charging socket 1 -UX4-

- with High voltage connector lock 1 adjuster -F498- , Charging socket temperature sensor 1 -G853-



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## 1.56 High voltage battery charger 1 -AX4- , from Week 47/2016

1 - High voltage battery charger 1 -AX4-

□ with High voltage battery charger control module -J1050-

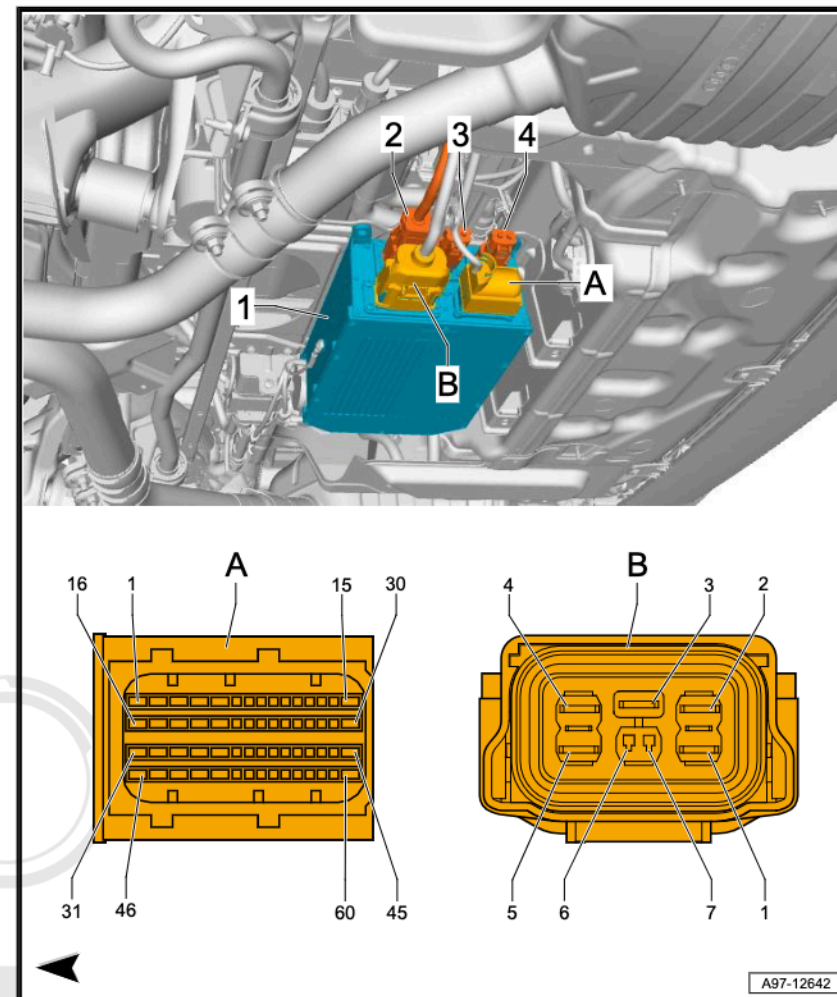
2 - High voltage battery charger high voltage wiring -P25-

3 - High voltage heating high voltage cable (PTC) -P11-

4 - Not used

A - 60-Pin Connector -T60a- , black

B - 8-Pin Connector -T8bl- , orange



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## Pin Arrangements High voltage battery charger 1 -AX4-

-T60a- (A)	Designation	-T60a- (A)	Designation	-T60a- (A)	Designation
1	Terminal 30, from Fuse Carrier 3 -ST3- in Fuse Panel F -SF-	21	Battery charging button module -EX32-	41	
2		22	Battery charging button module -EX32-	42	
3	Ground supply Battery charging button module -EX32-	23	High voltage battery charging socket 1 -UX4-	43	
4	Battery charging button module -EX32-	24	High voltage battery charging socket 1 -UX4-	44	
5	Battery charging button module -EX32-	25	Battery charging button module -EX32-	45	
6	Battery charging button module -EX32-	26	Battery charging button module -EX32-	46	
7		27	Charging socket temperature sensor 1 -G853- In the High voltage battery charging socket 1 -UX4-	47	
8	High voltage battery charging socket 1 -UX4-	28	Charging socket temperature sensor 1 -G853- In the High voltage battery charging socket 1 -UX4-	48	
9	CAN-Bus Hybrid High, to (B776) Hybrid CAN bus high connection 1 (in main wiring harness)	29		49	
10	CAN-Bus Hybrid Low, to (B777) Hybrid CAN bus low connection 1 (in main wiring harness)	30		50	
11		31	High voltage charge flap lock 1 adjuster -F496-	51	
12		32	High voltage charge flap lock 1 adjuster -F496-	52	
13		33		53	
14		34		54	
15		35		55	
16	High voltage connector lock 1 adjuster -F498- In the High voltage battery charging socket 1 -UX4-	36		56	
17	High voltage connector lock 1 adjuster -F498- In the High voltage battery charging socket 1 -UX4-	37		57	
18	High voltage connector lock 1 adjuster -F498- In the High voltage battery charging socket 1 -UX4-	38		58	

-T60a- (A)	Designation	-T60a- (A)	Designation	-T60a- (A)	Designation
19	High voltage connector lock 1 adjuster -F498- In the High voltage battery charging socket 1 -UX4-	39		59	
20		40		60	Terminal 31, to (396) Ground Connection 31 (in main wiring harness), (399) Ground Connection 34 (in main wiring harness), (51) Ground Connection (in luggage compartment, right)

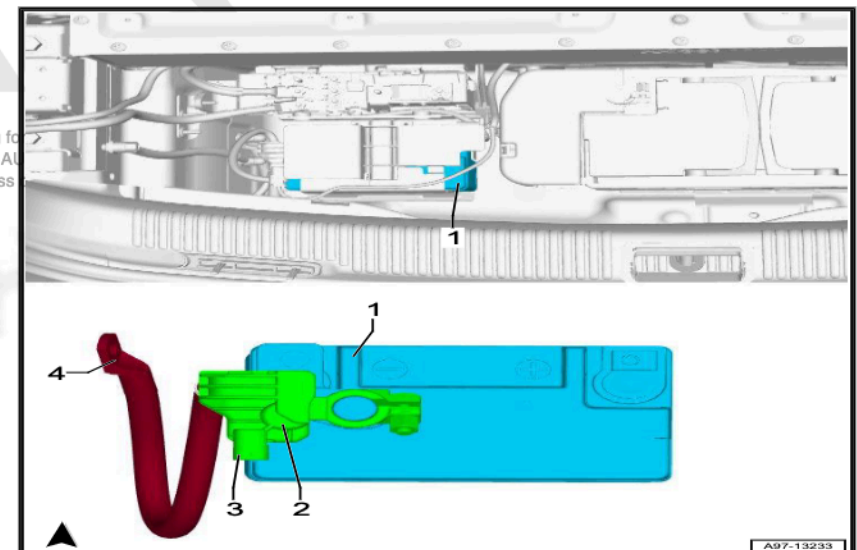
-T8bl- (B)	Designation	-T8bl- (B)	Designation
1	High voltage battery charging socket 1 -UX4-	5	High voltage battery charging socket 1 -UX4-
2		6	
3		7	
4	High voltage battery charging socket 1 -UX4-	8	Shielding

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## 1.57 Auxiliary Battery -A1- , from Week 47/2016

In left luggage compartment behind Hybrid Battery Unit -AX1- .

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- 1 - Auxiliary Battery -A1-
- 2 - Battery Monitoring Control Module 2 -J934-
- 3 - 2-Pin Connector -T2mu-
- 4 -  Ground Connection 2 (in left luggage compartment)

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